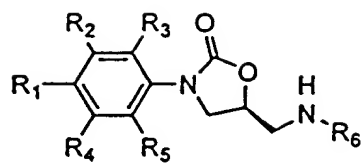


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1b

FIGURE 1

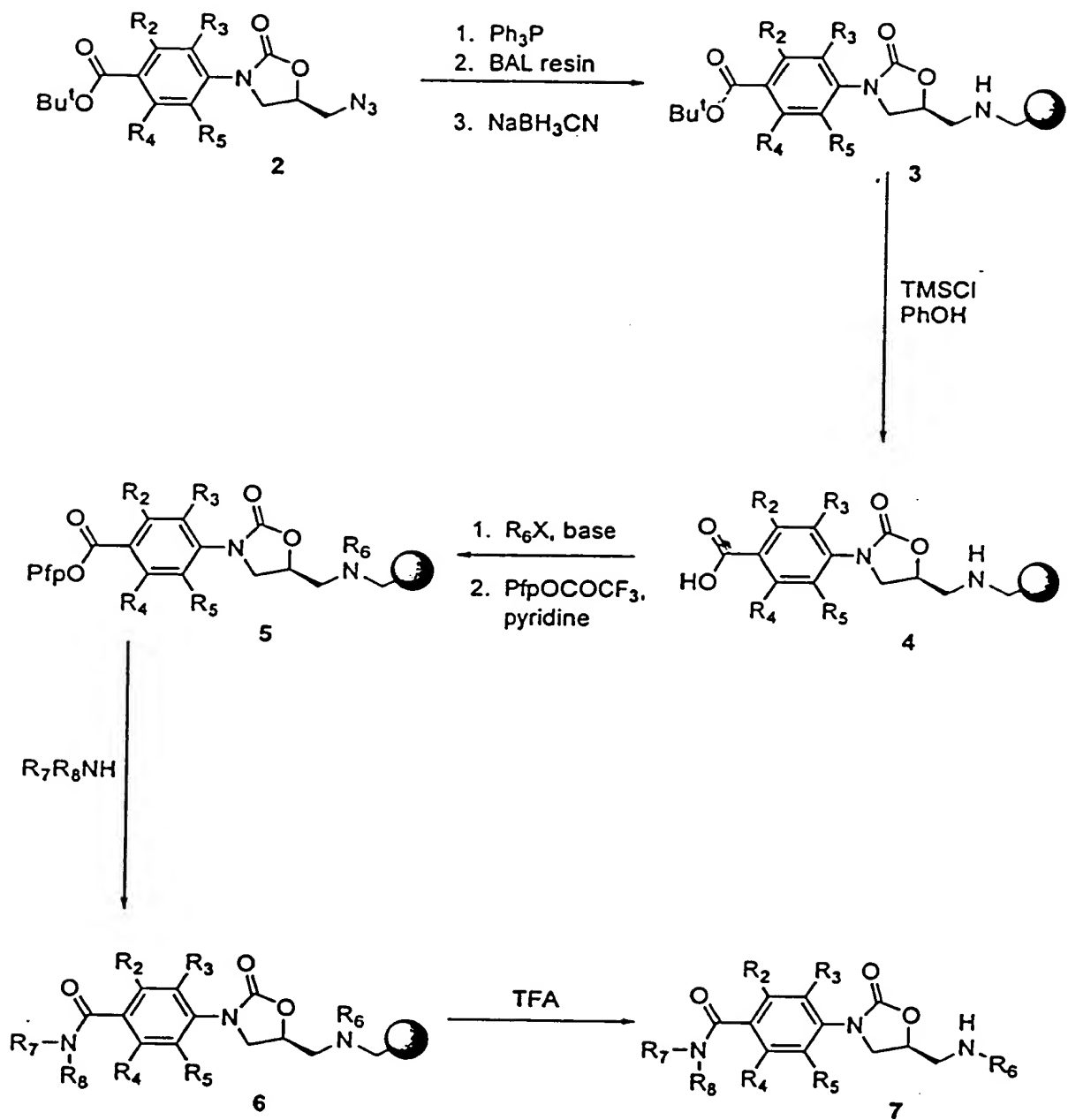


FIGURE 2

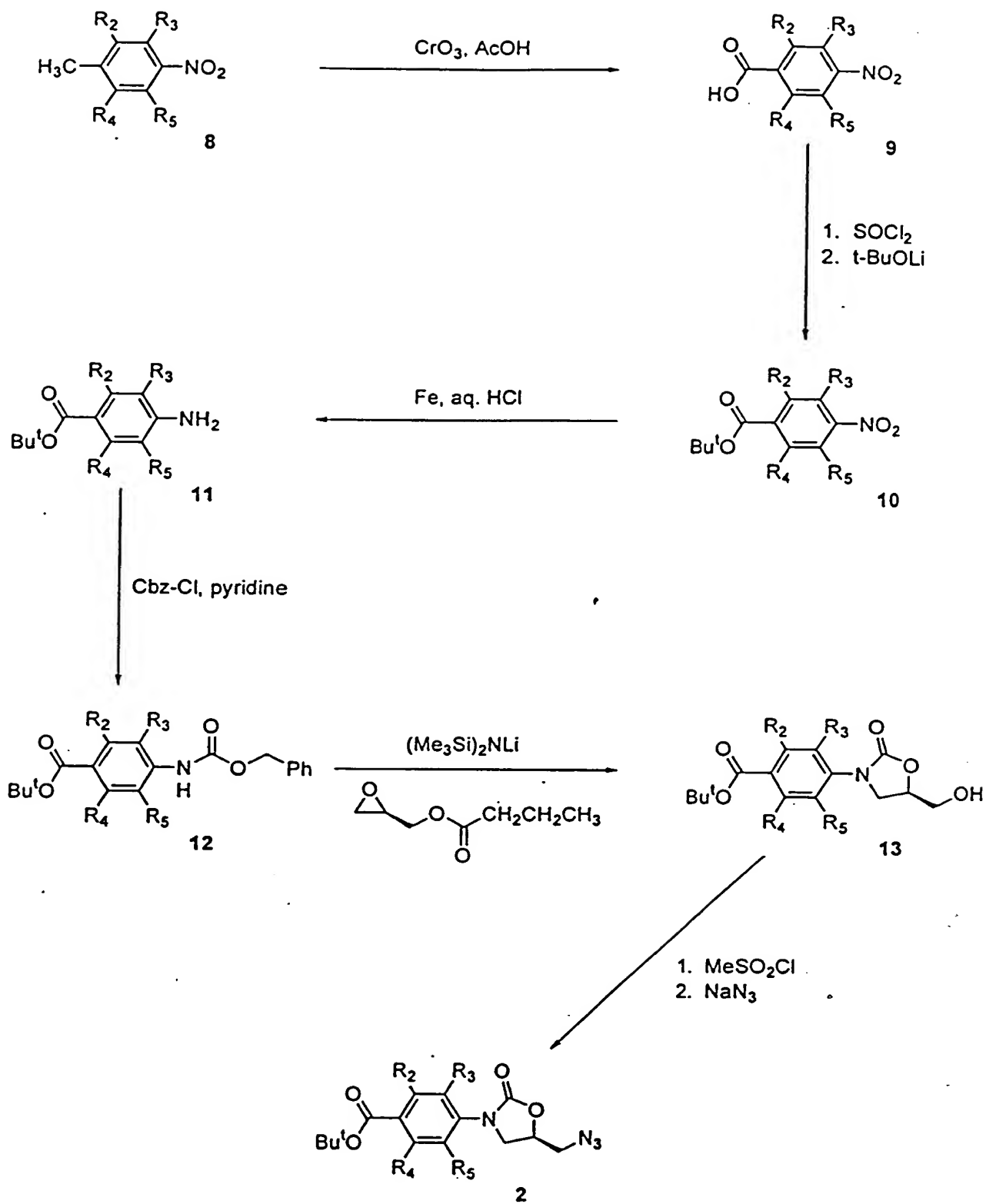


FIGURE 3

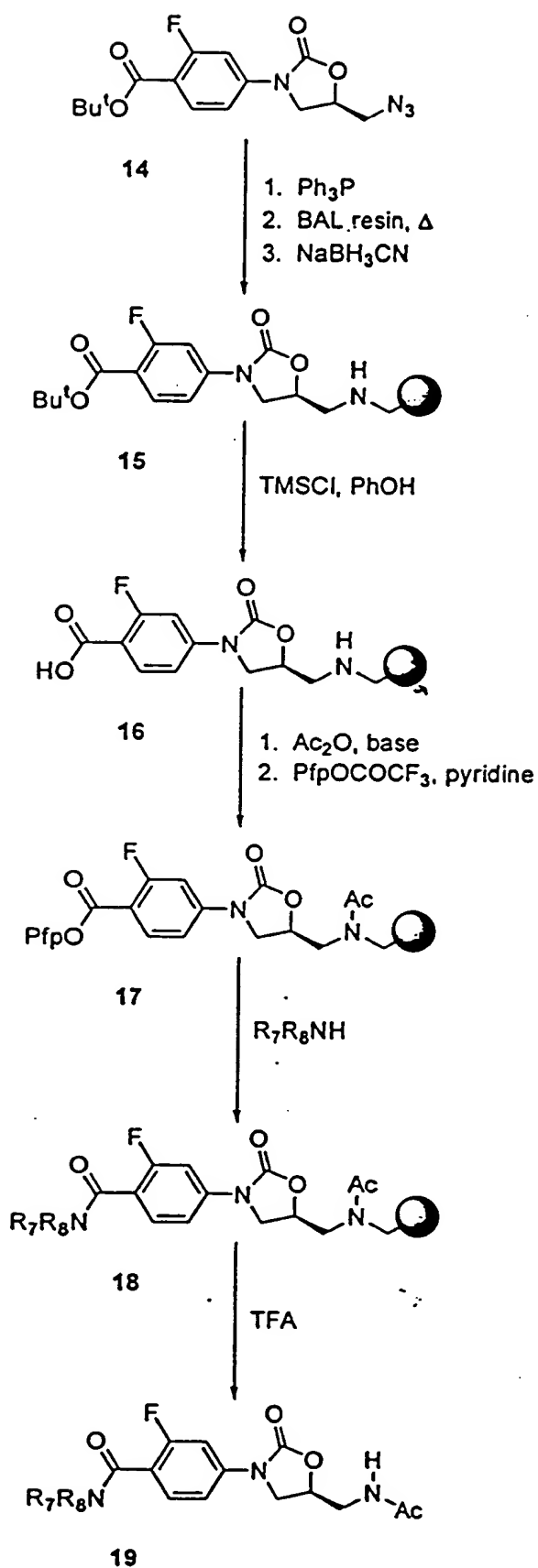


FIGURE 4

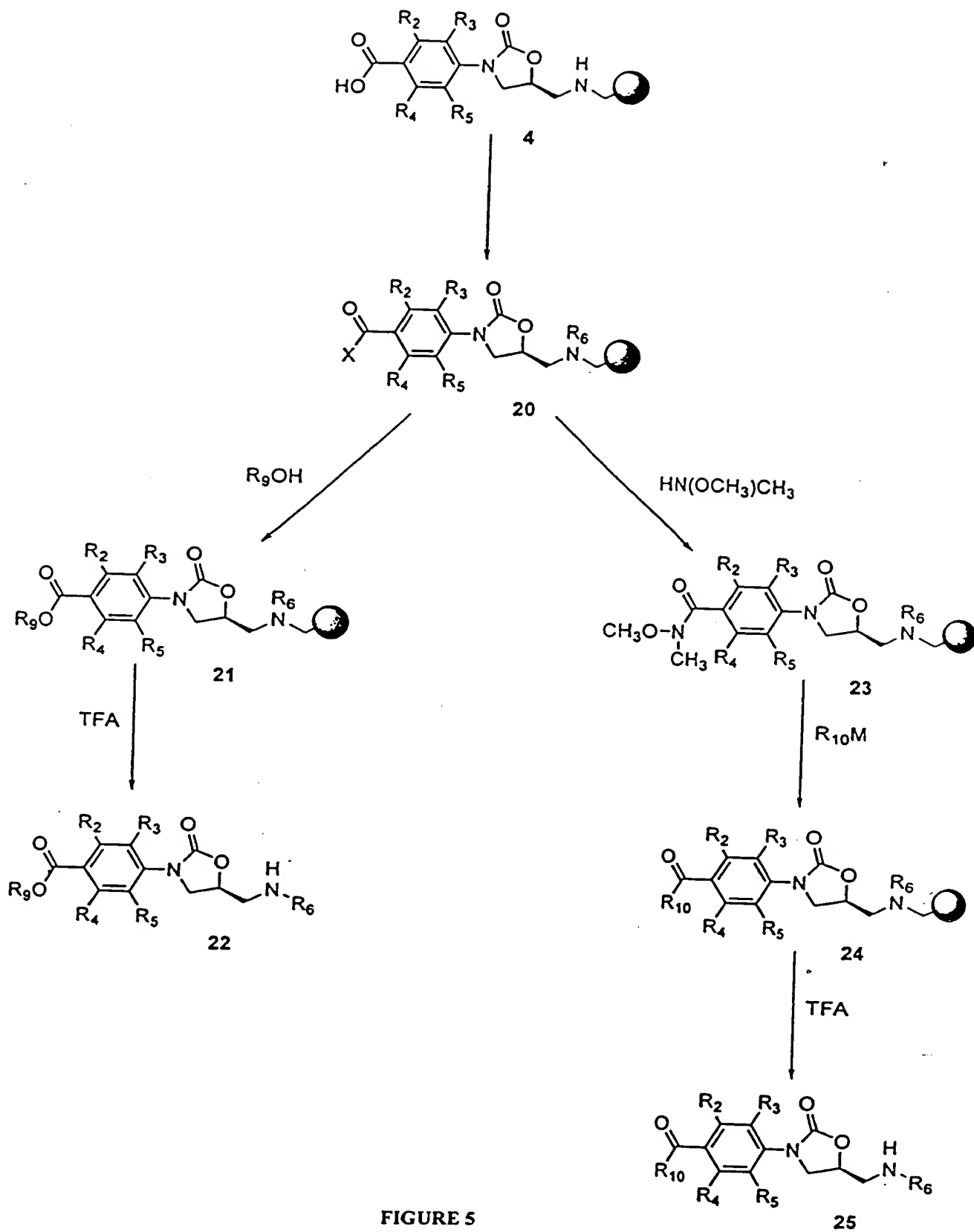


FIGURE 5

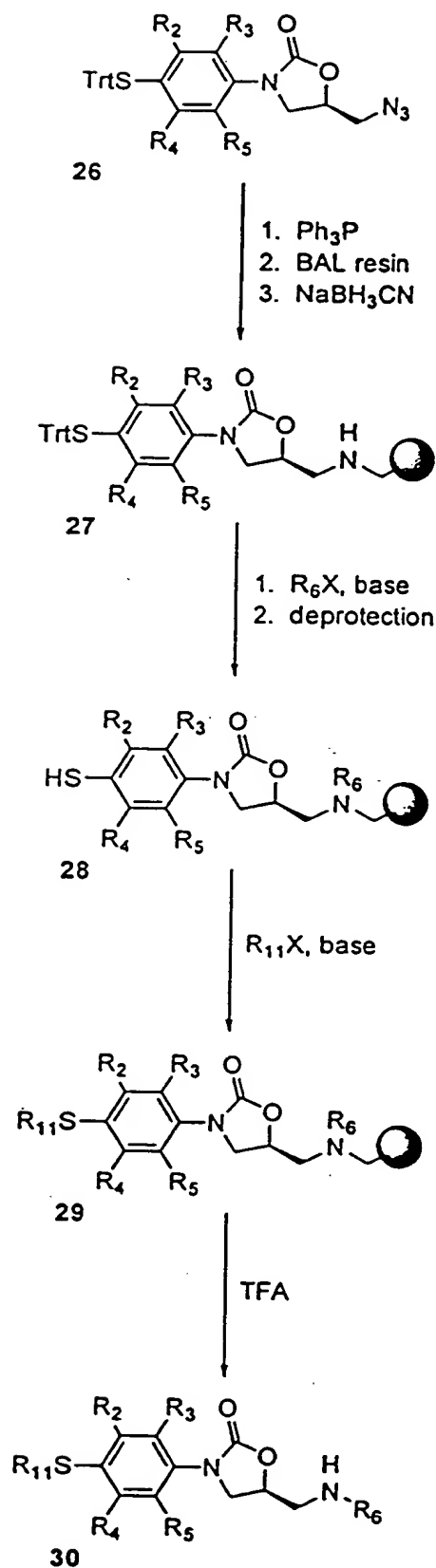


FIGURE 6

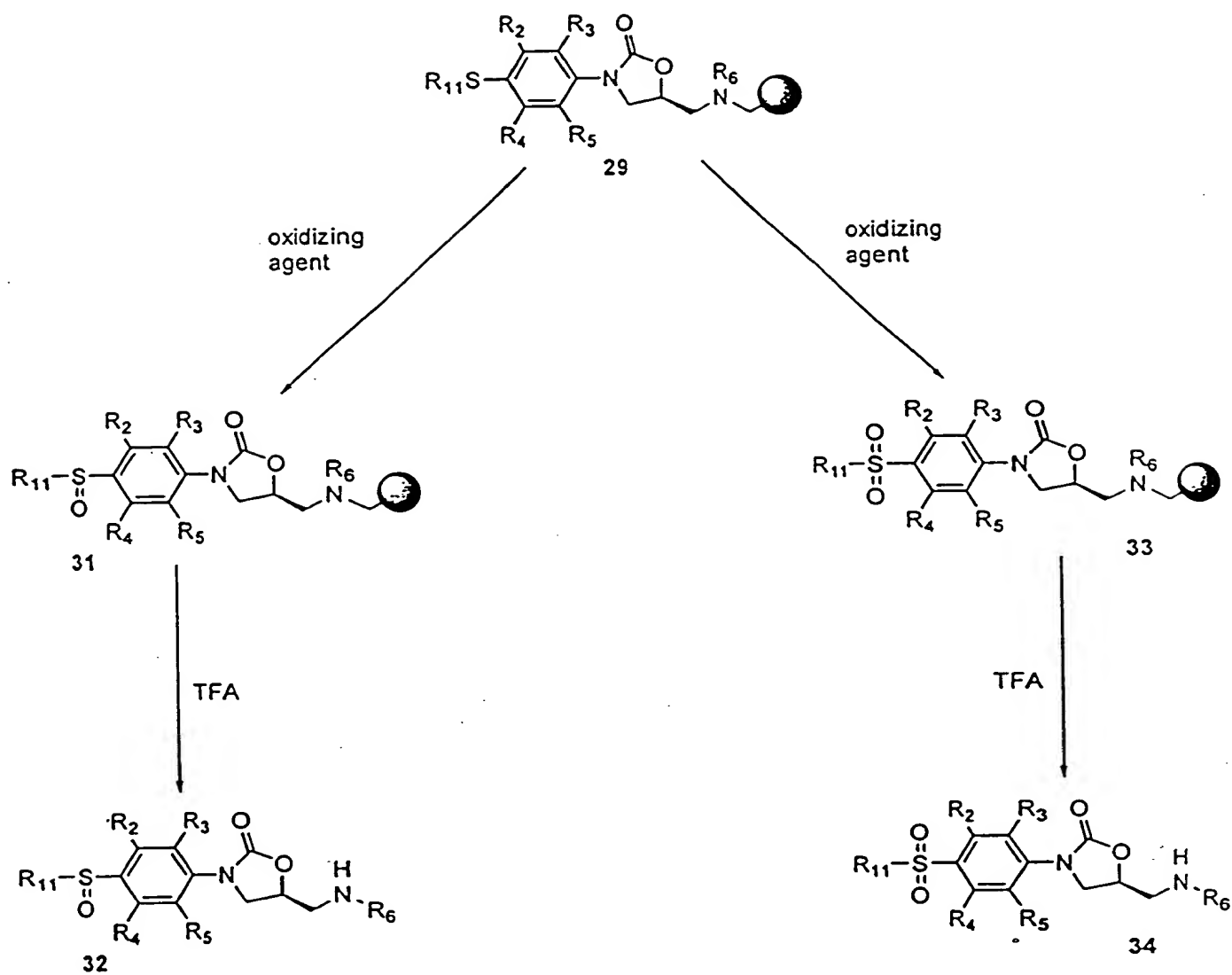


FIGURE 7

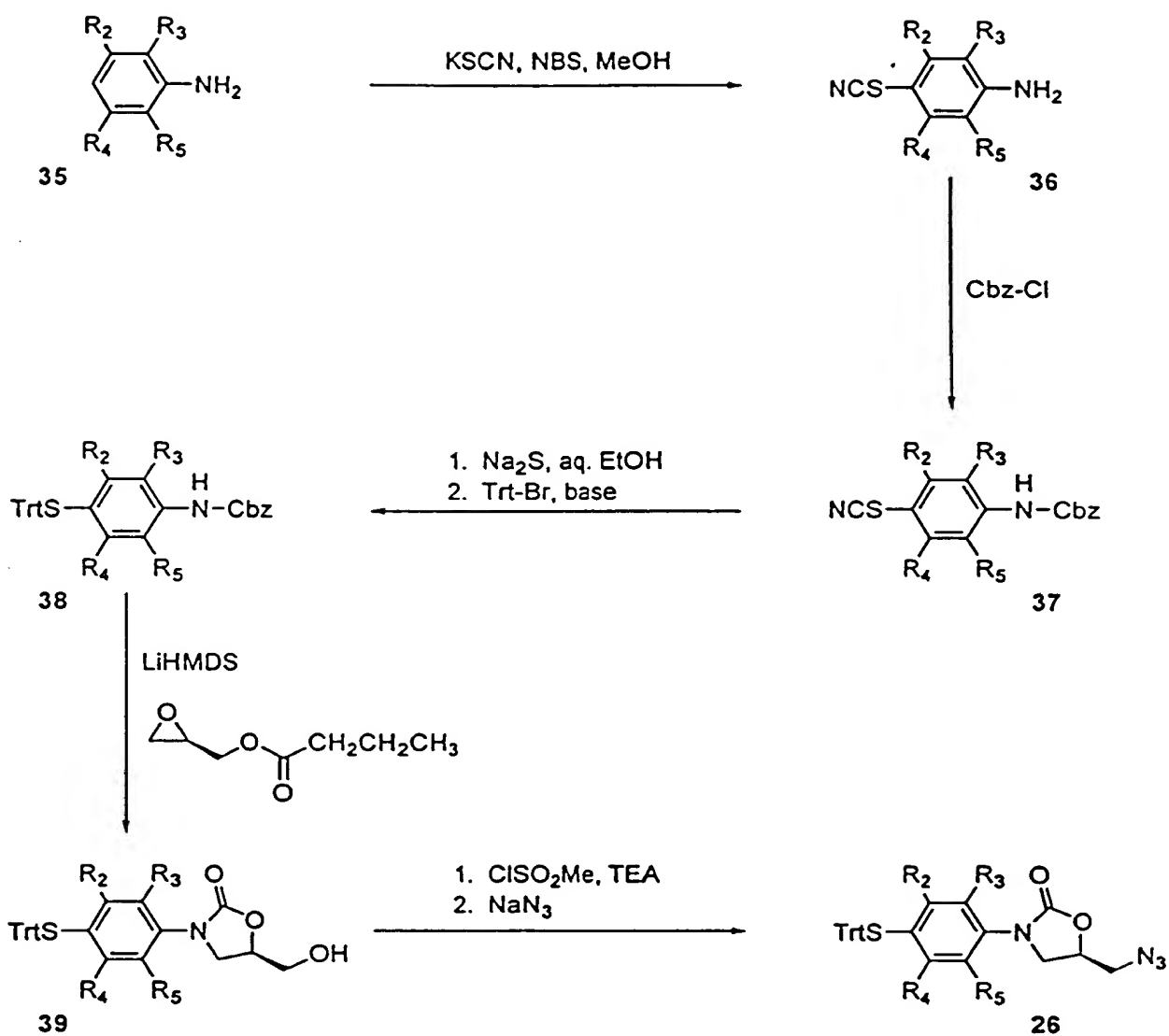
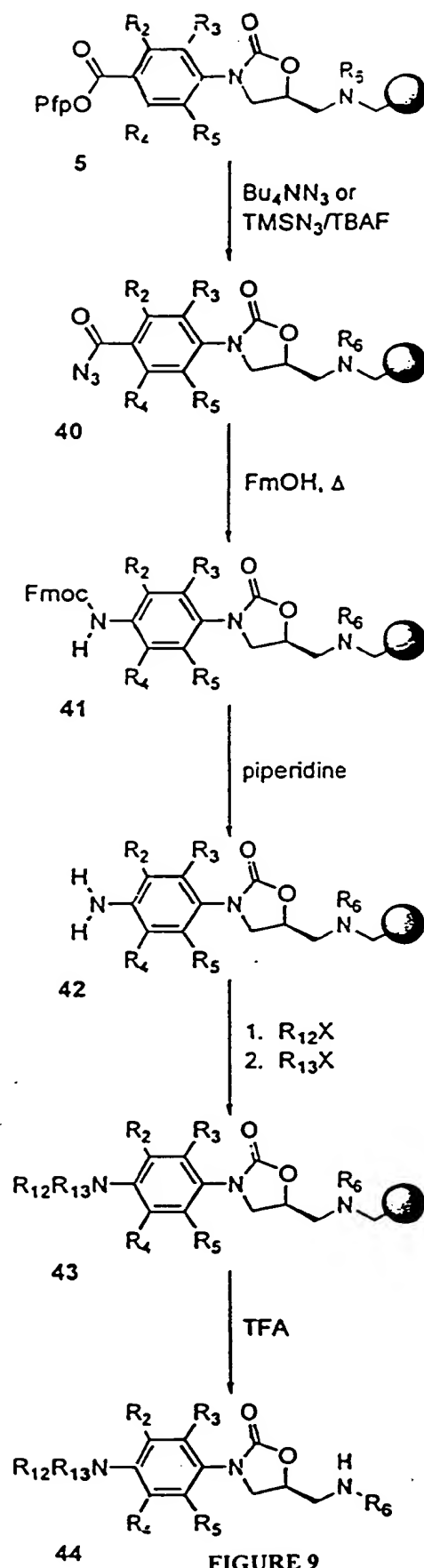


FIGURE 8



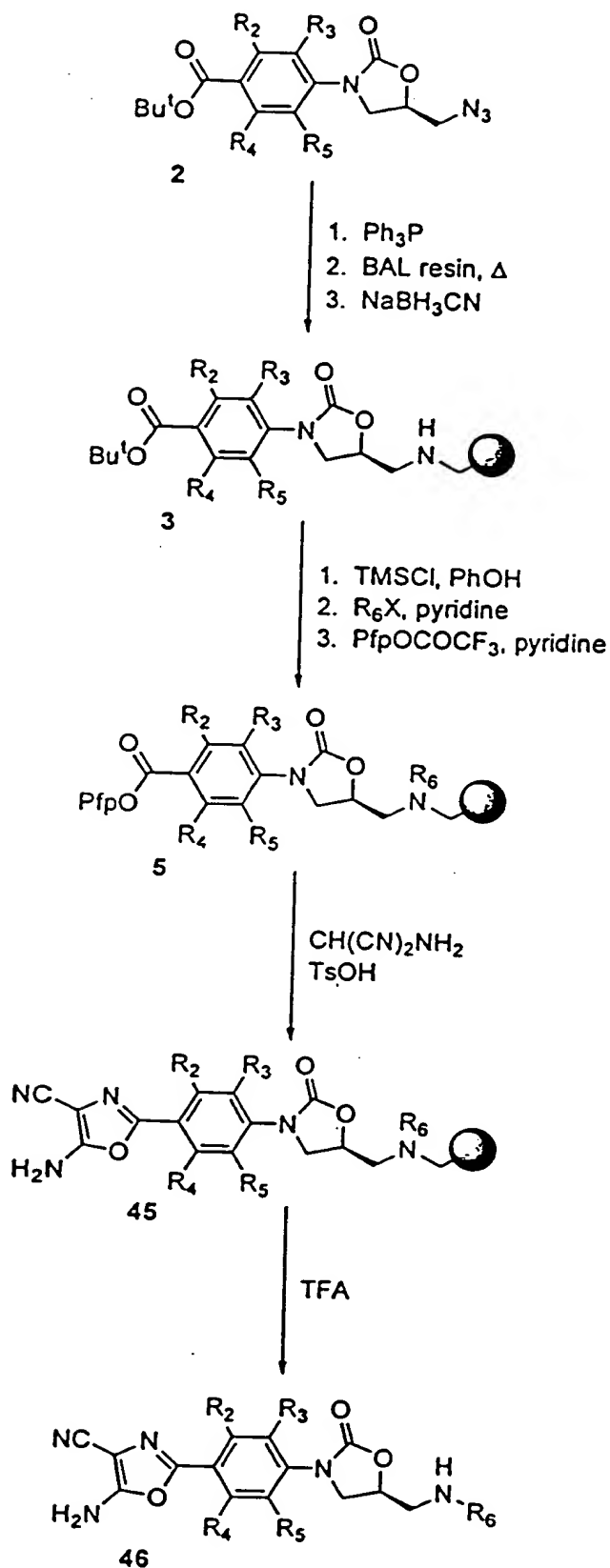


FIGURE 10

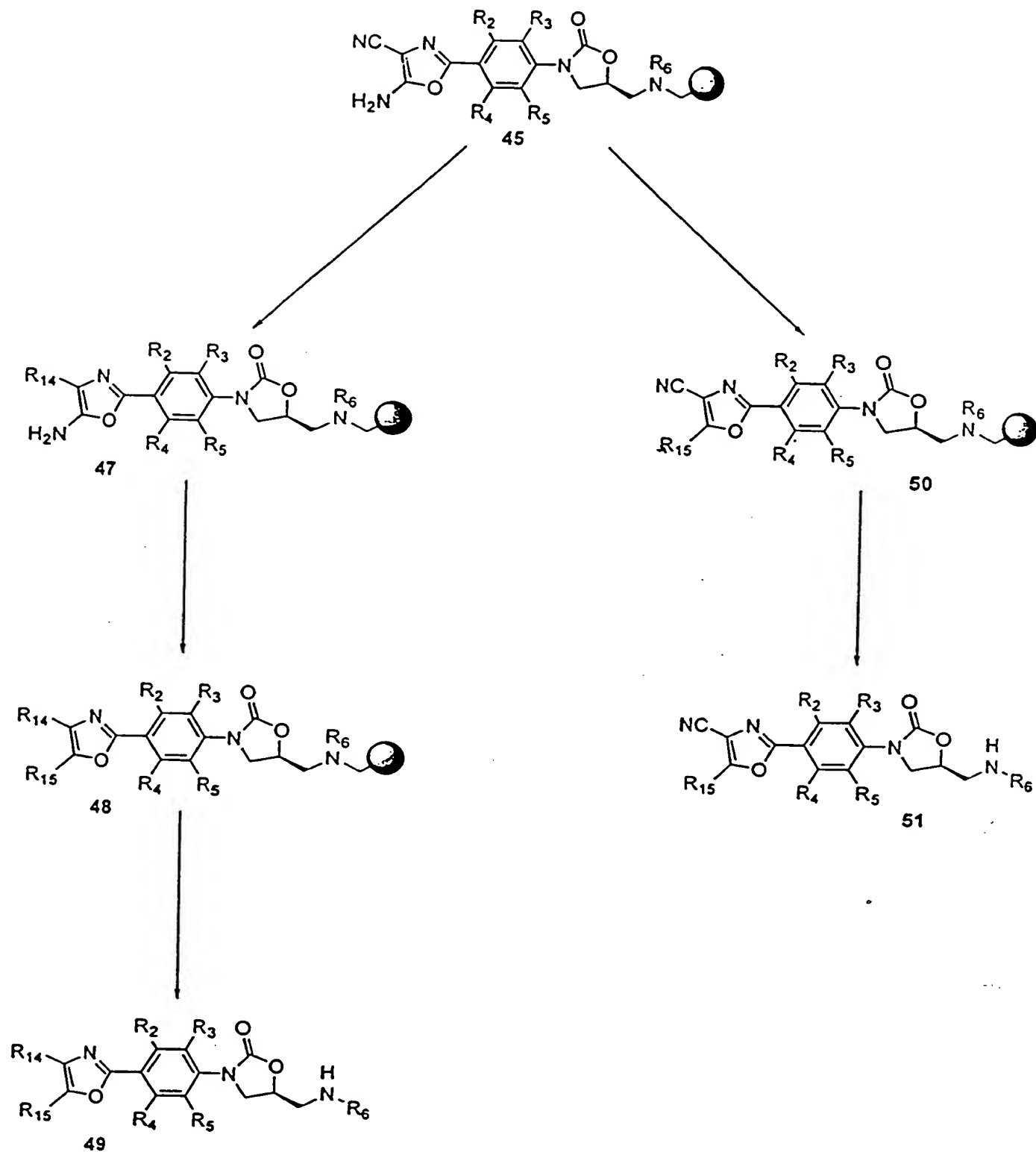


FIGURE 11

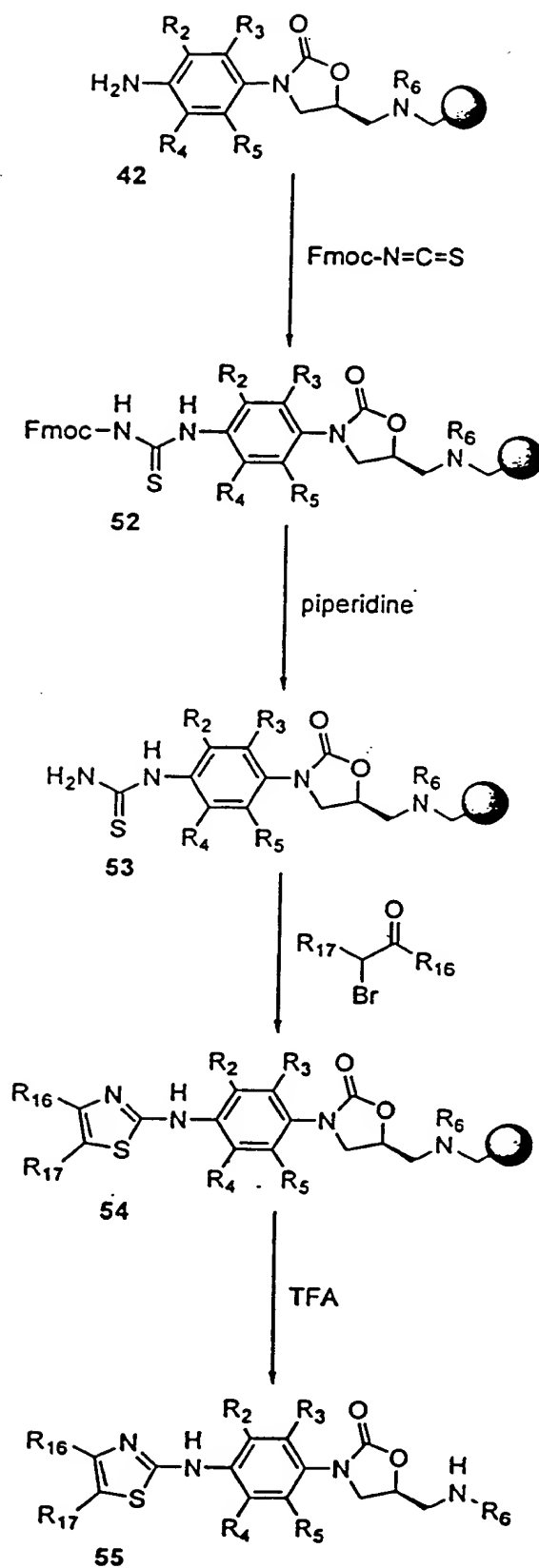


FIGURE 12

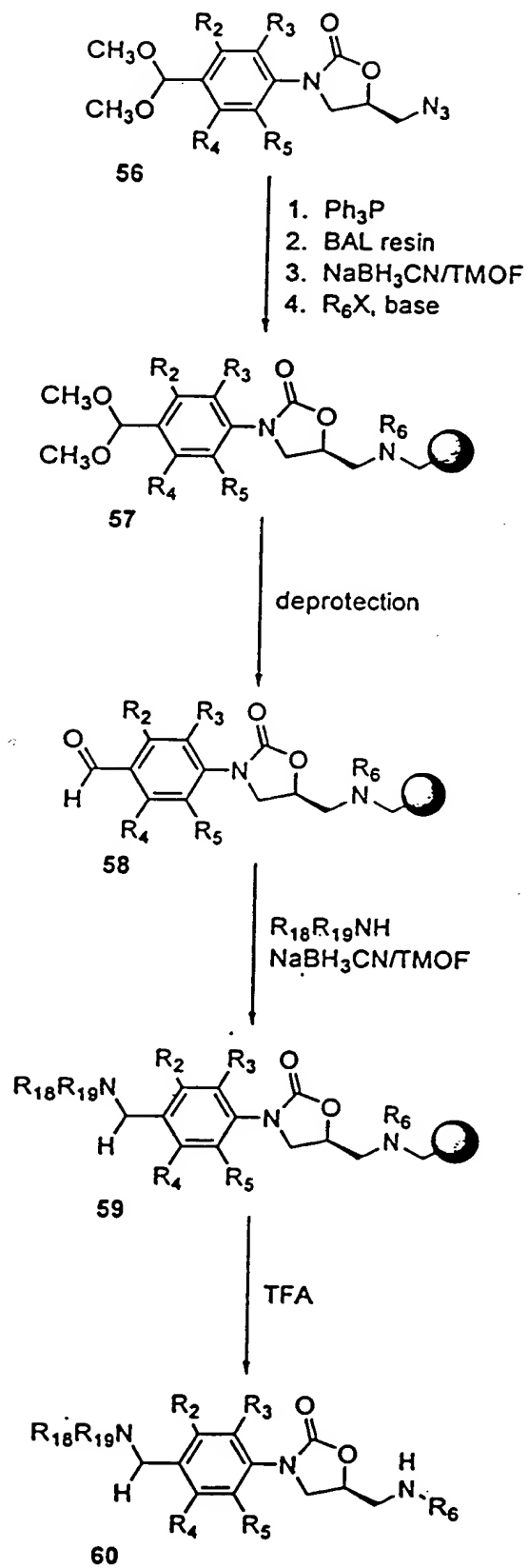
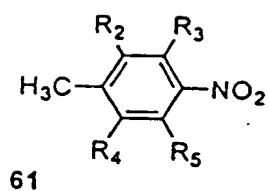
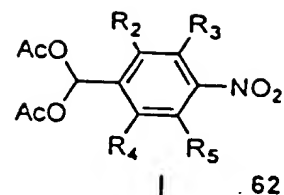


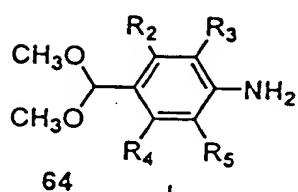
FIGURE 13



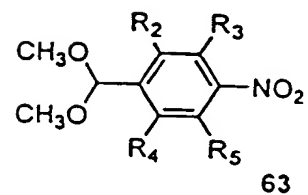
$\text{CrO}_3, \text{Ac}_2\text{O}, \text{H}_2\text{SO}_4$



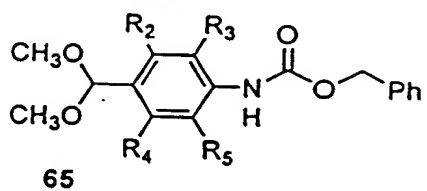
1. $\text{K}_2\text{CO}_3, \text{MeOH}$
2. TMOF, MeOH



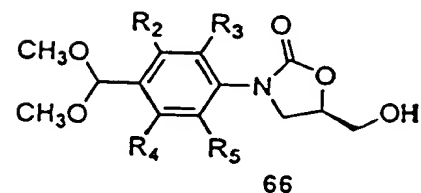
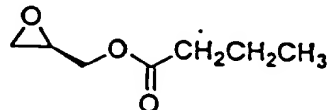
H_2/Pd



Cbz-Cl



LiHMDS



1. $\text{ClSO}_2\text{Me}, \text{TEA}$
2. NaN_3

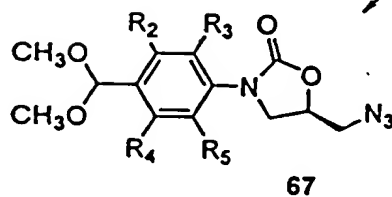


FIGURE 14

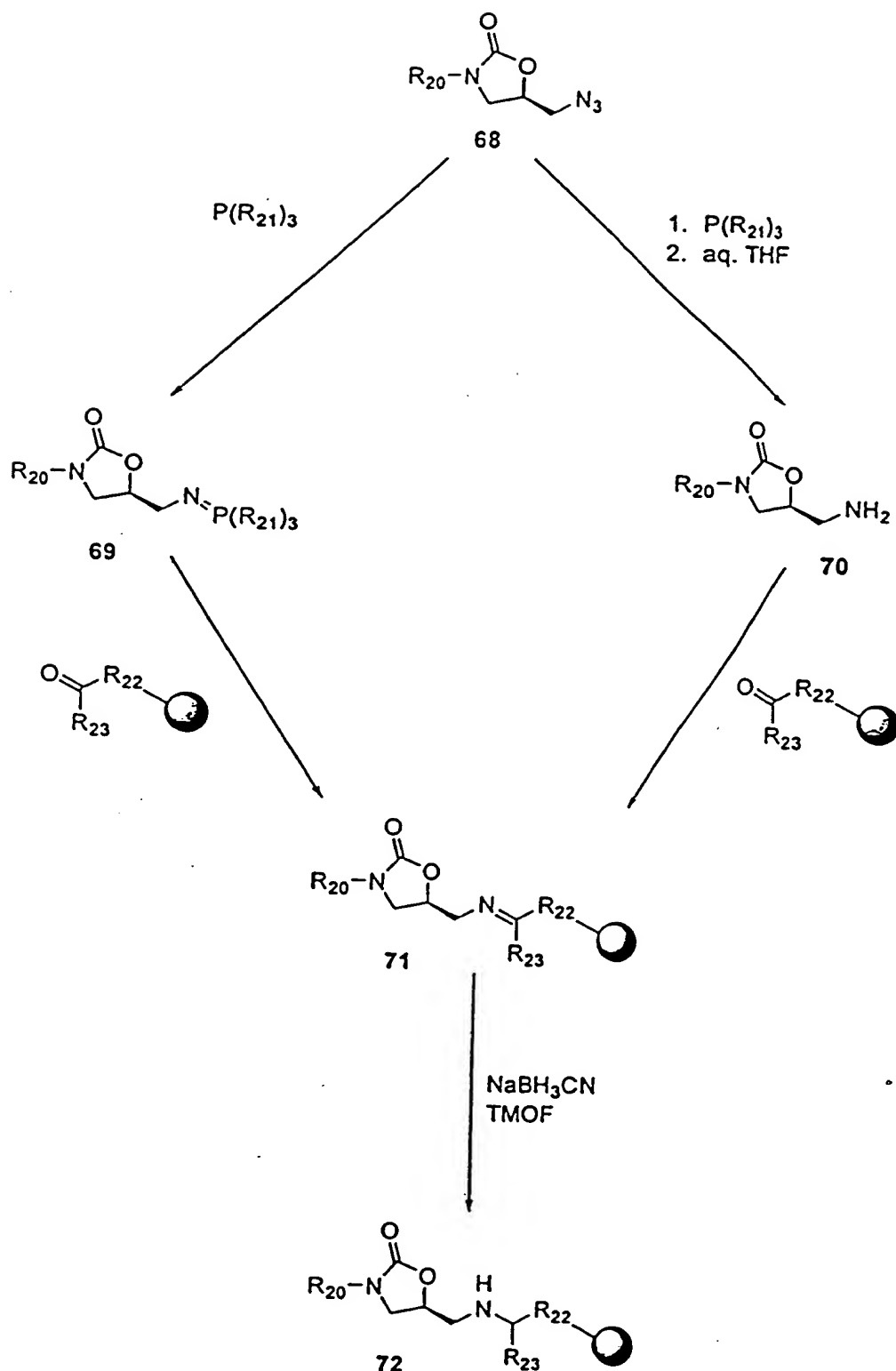


FIGURE 15

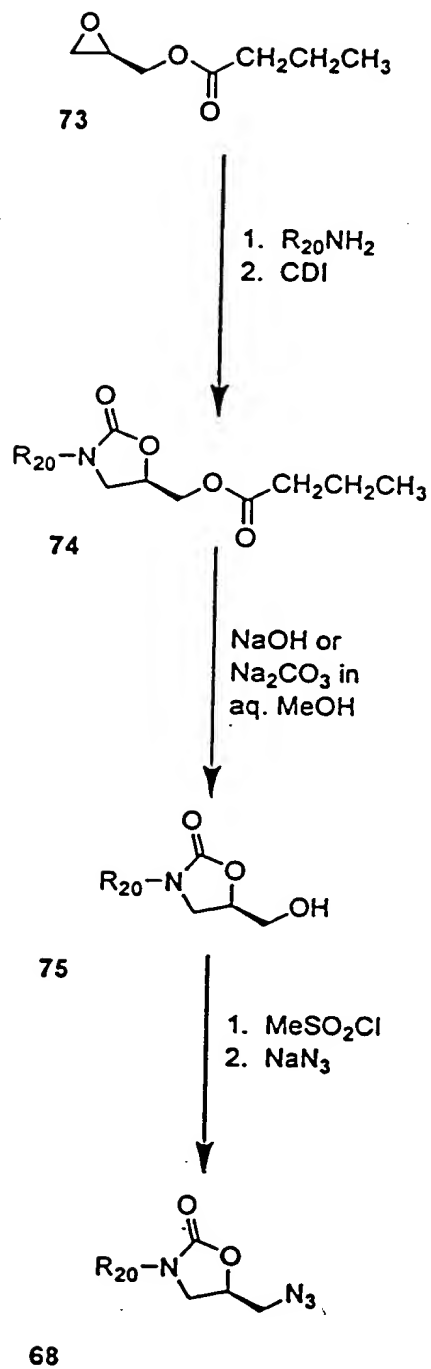


FIGURE 16

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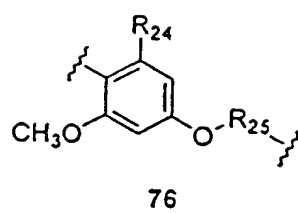


FIGURE 17

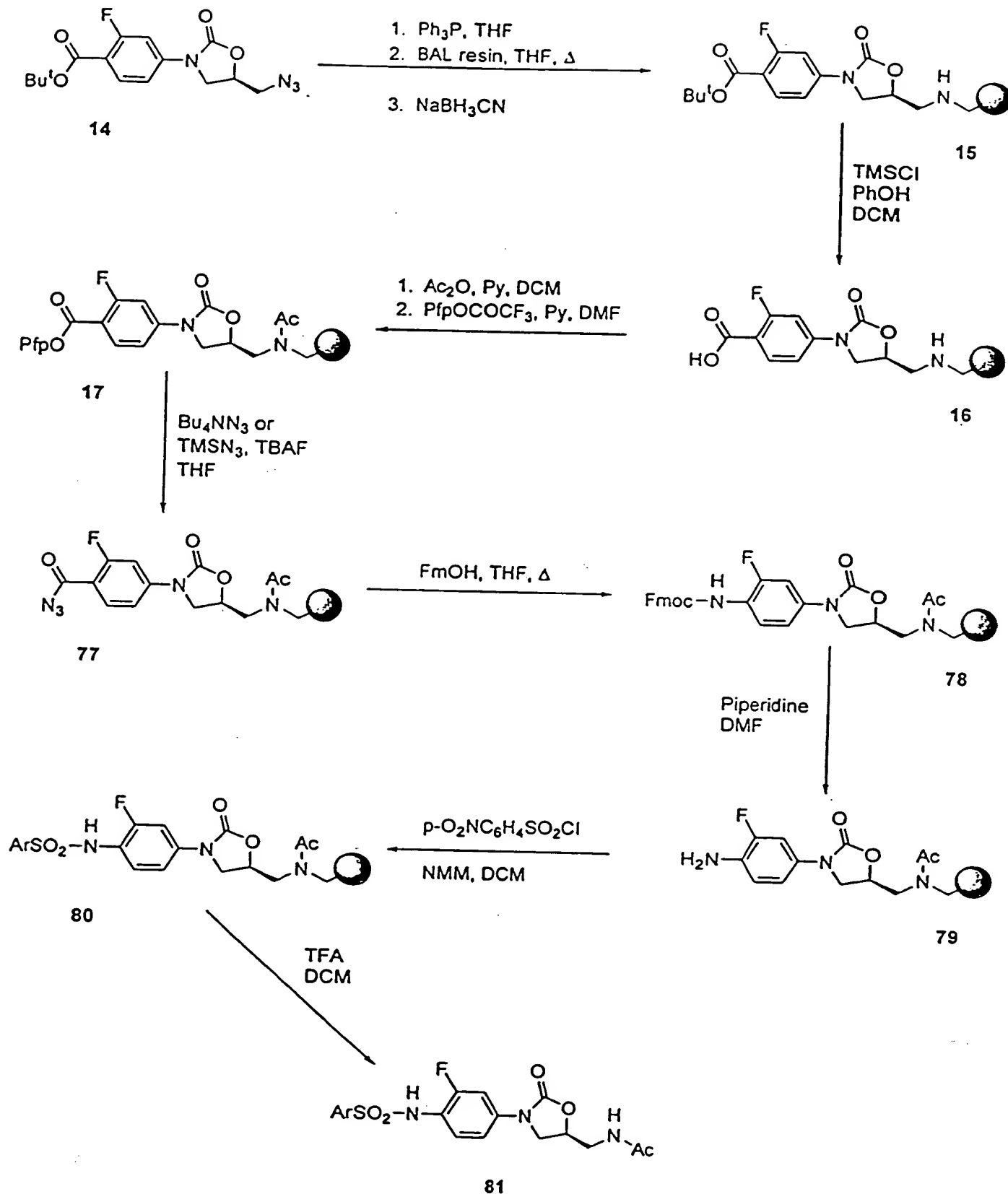


FIGURE 18

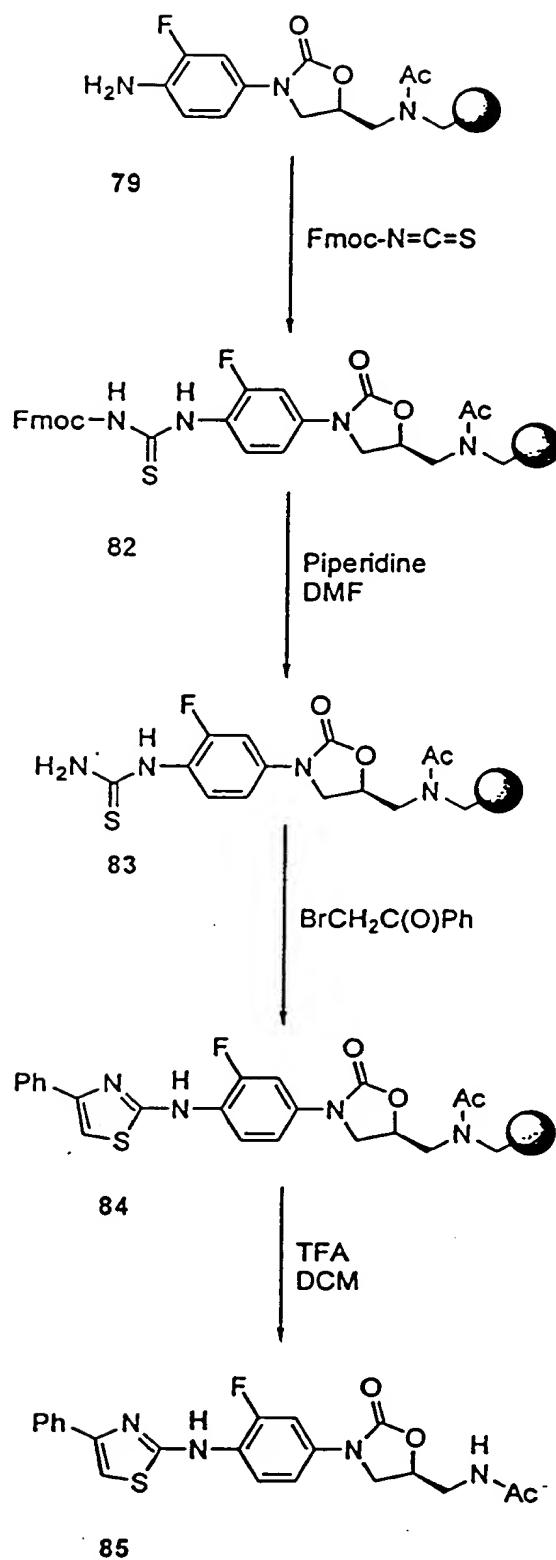


FIGURE 19

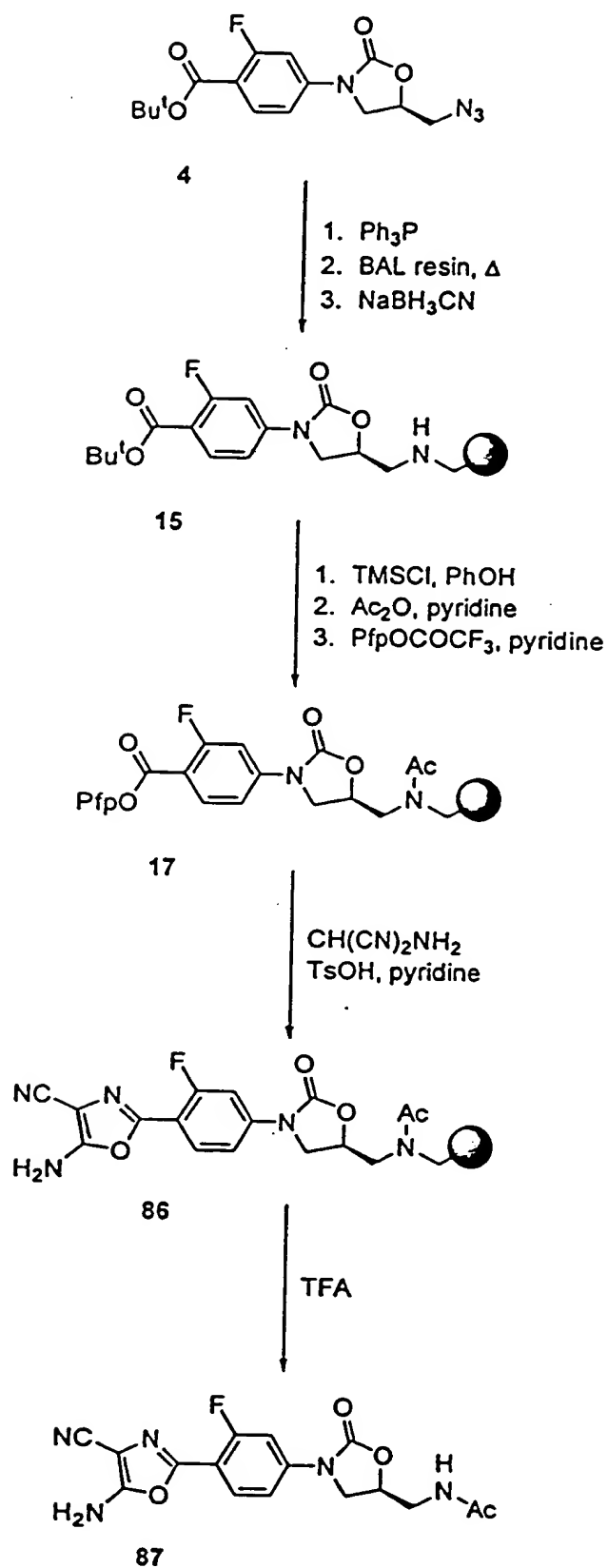


FIGURE 20

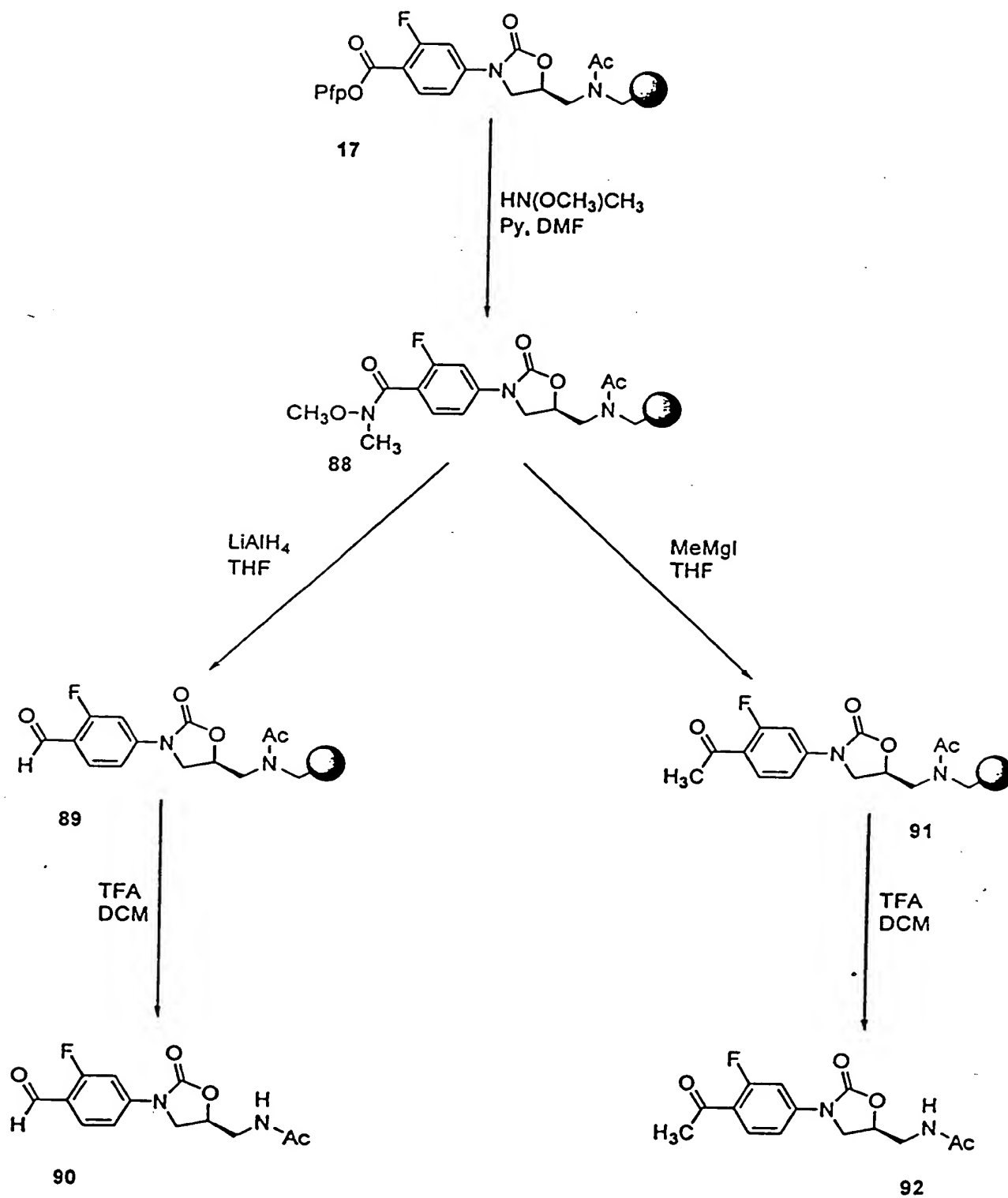


FIGURE 21

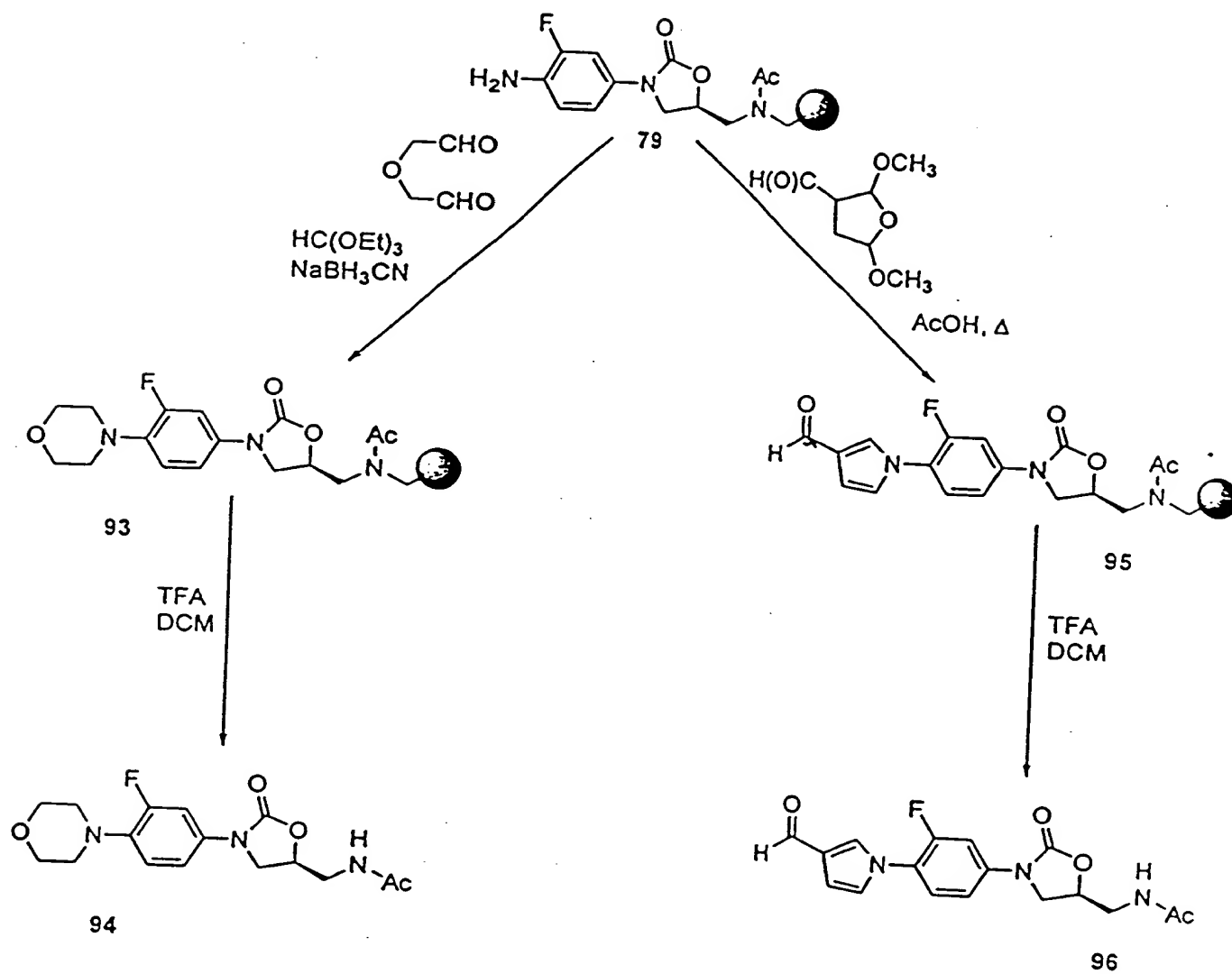


FIGURE 22

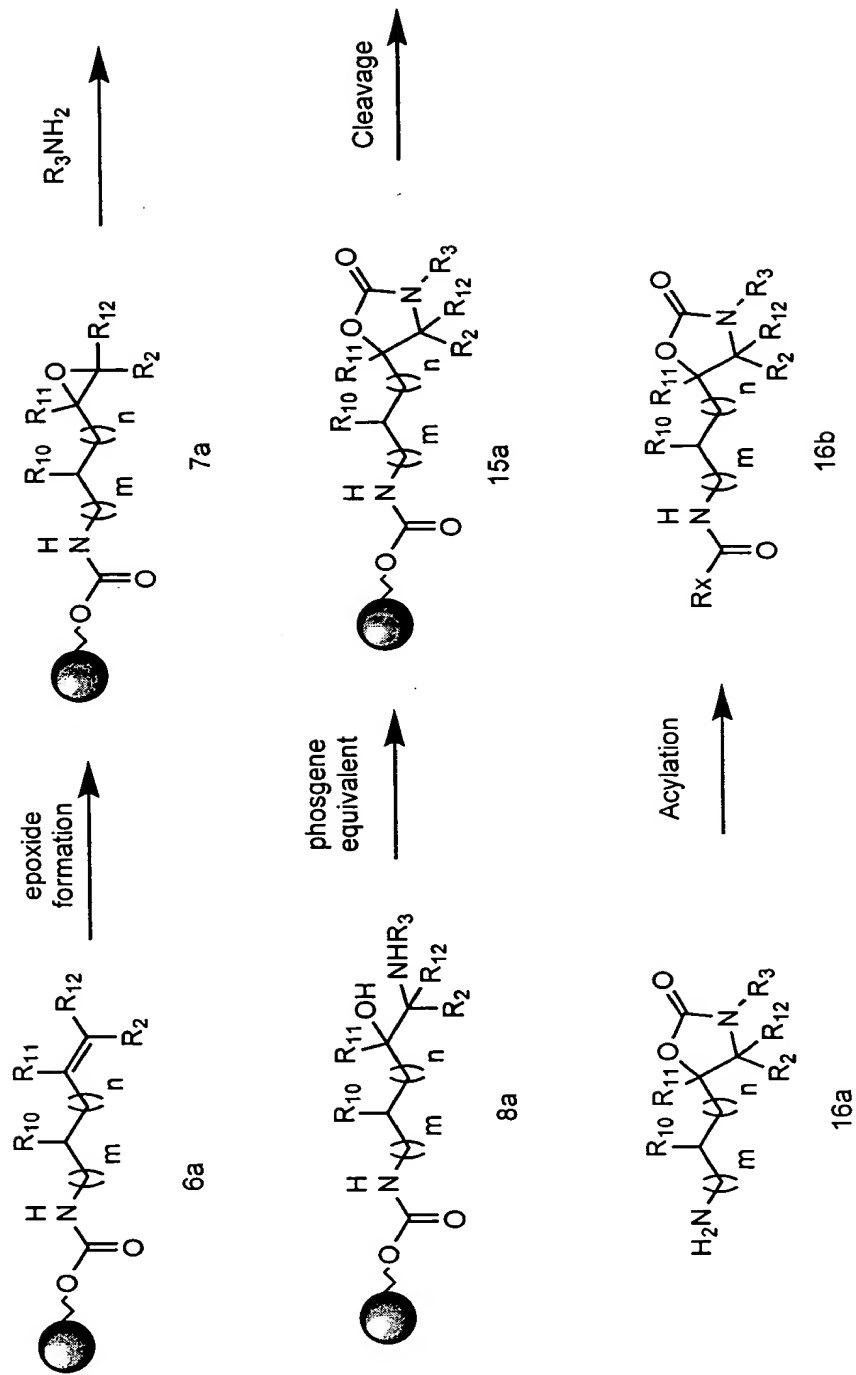


FIGURE 23

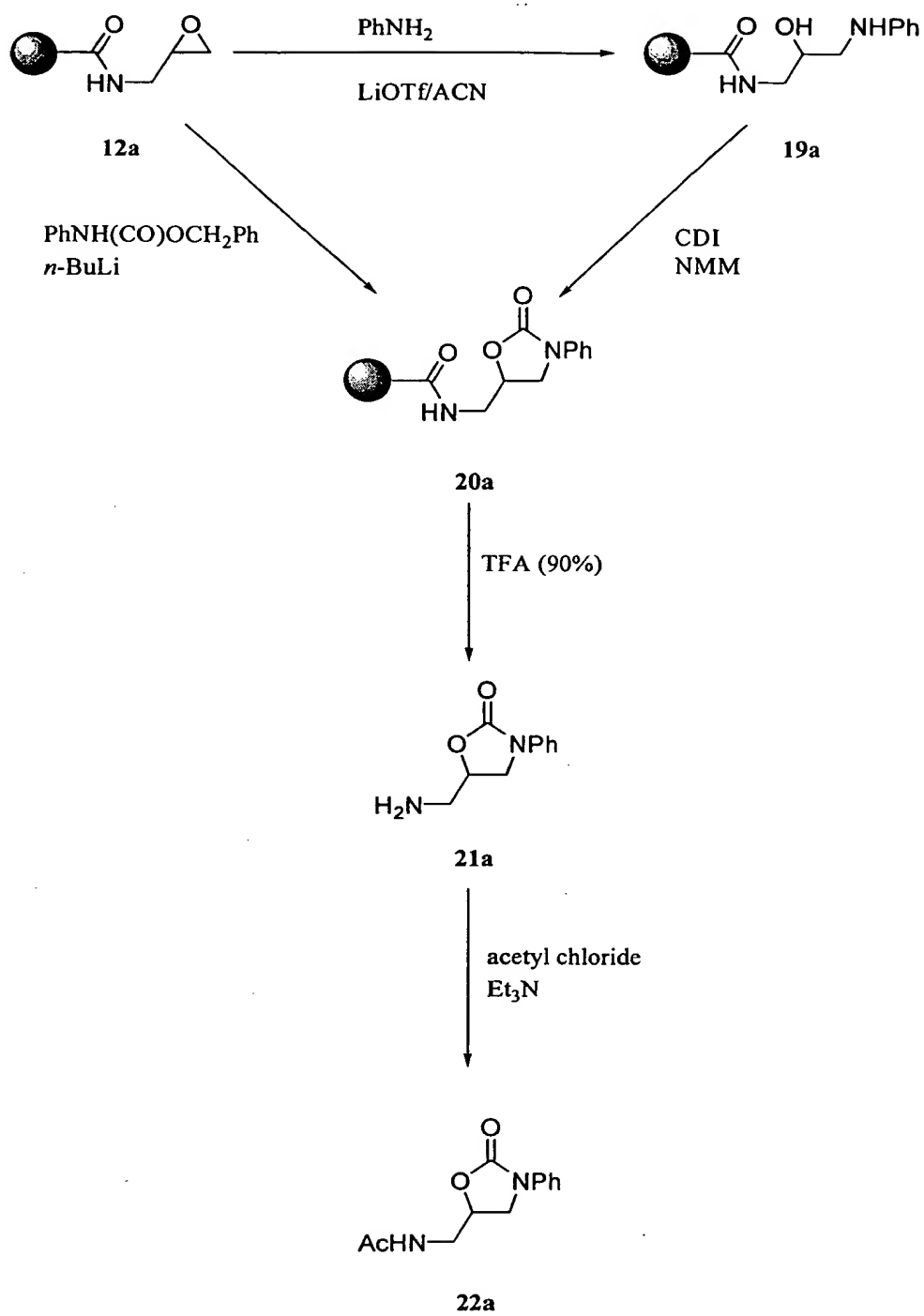


FIGURE 24

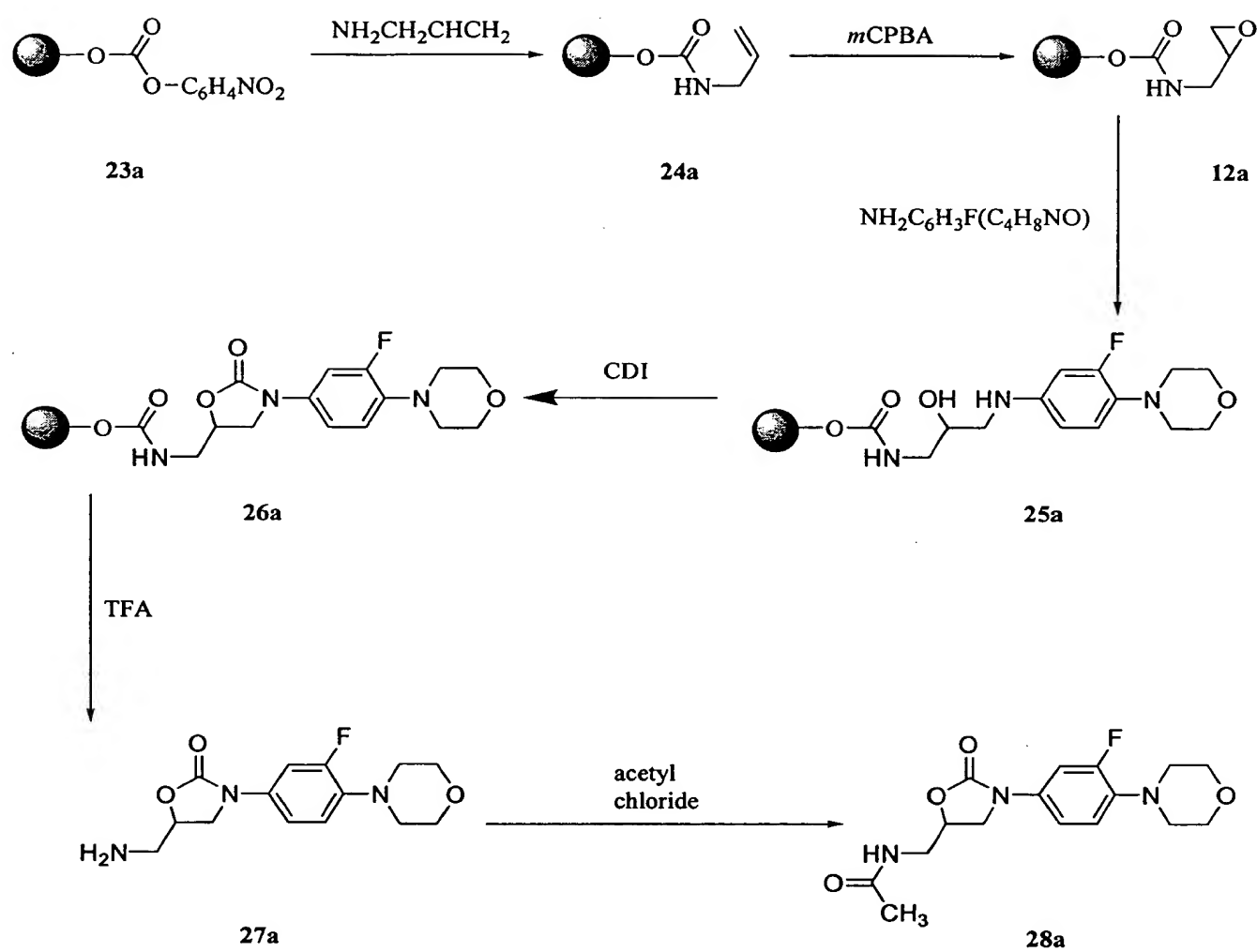


FIGURE 25

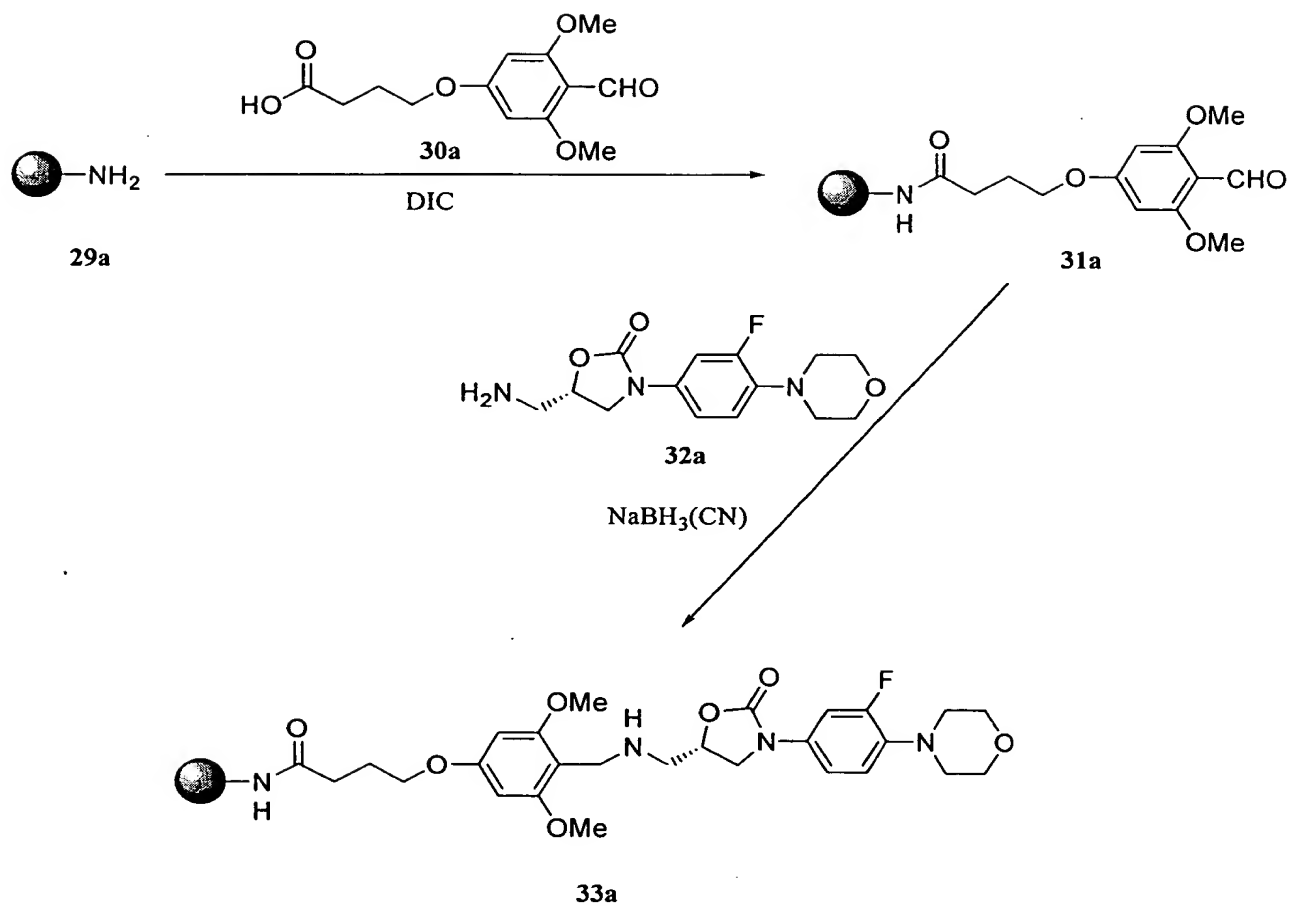


FIGURE 26

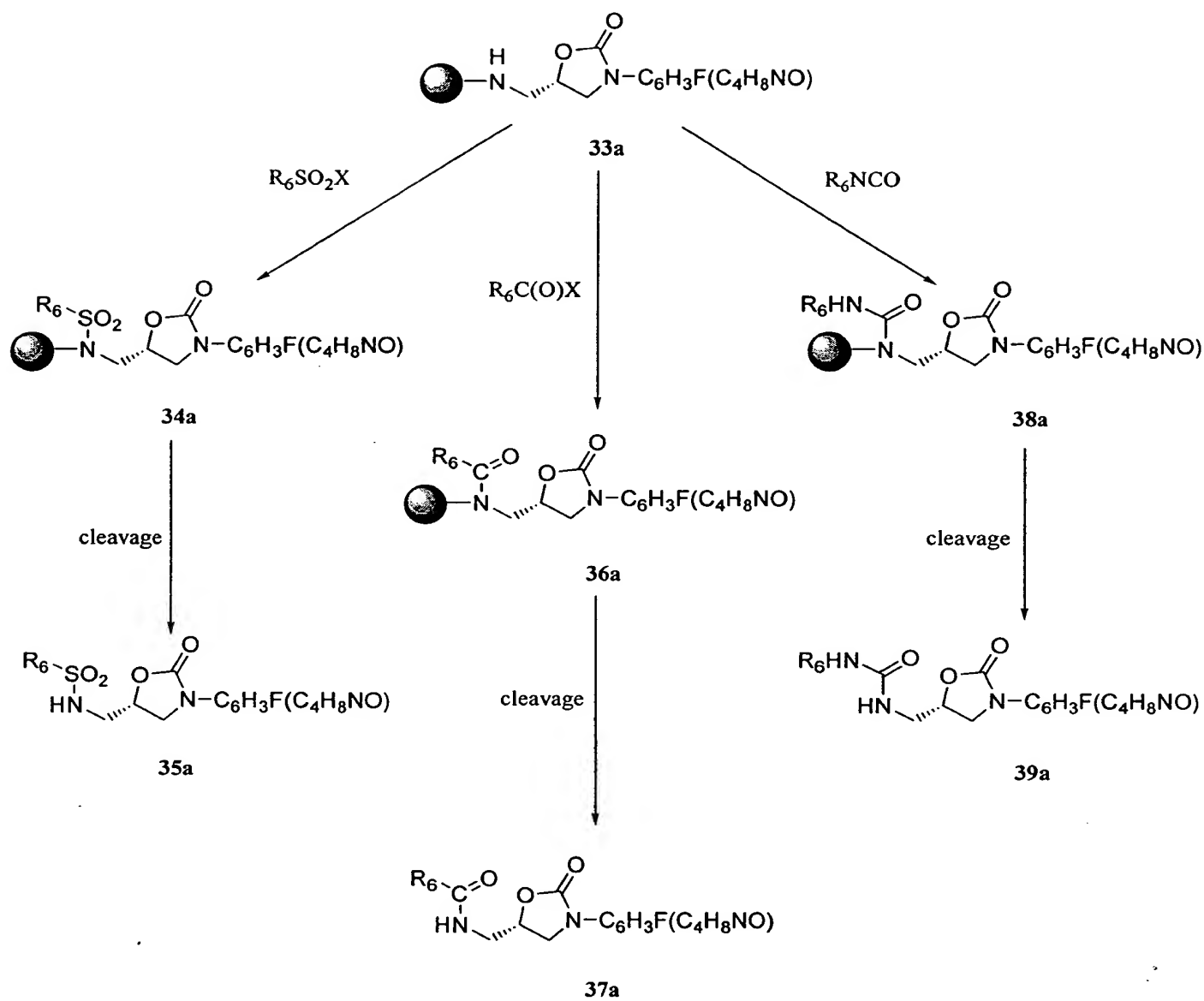


FIGURE 27

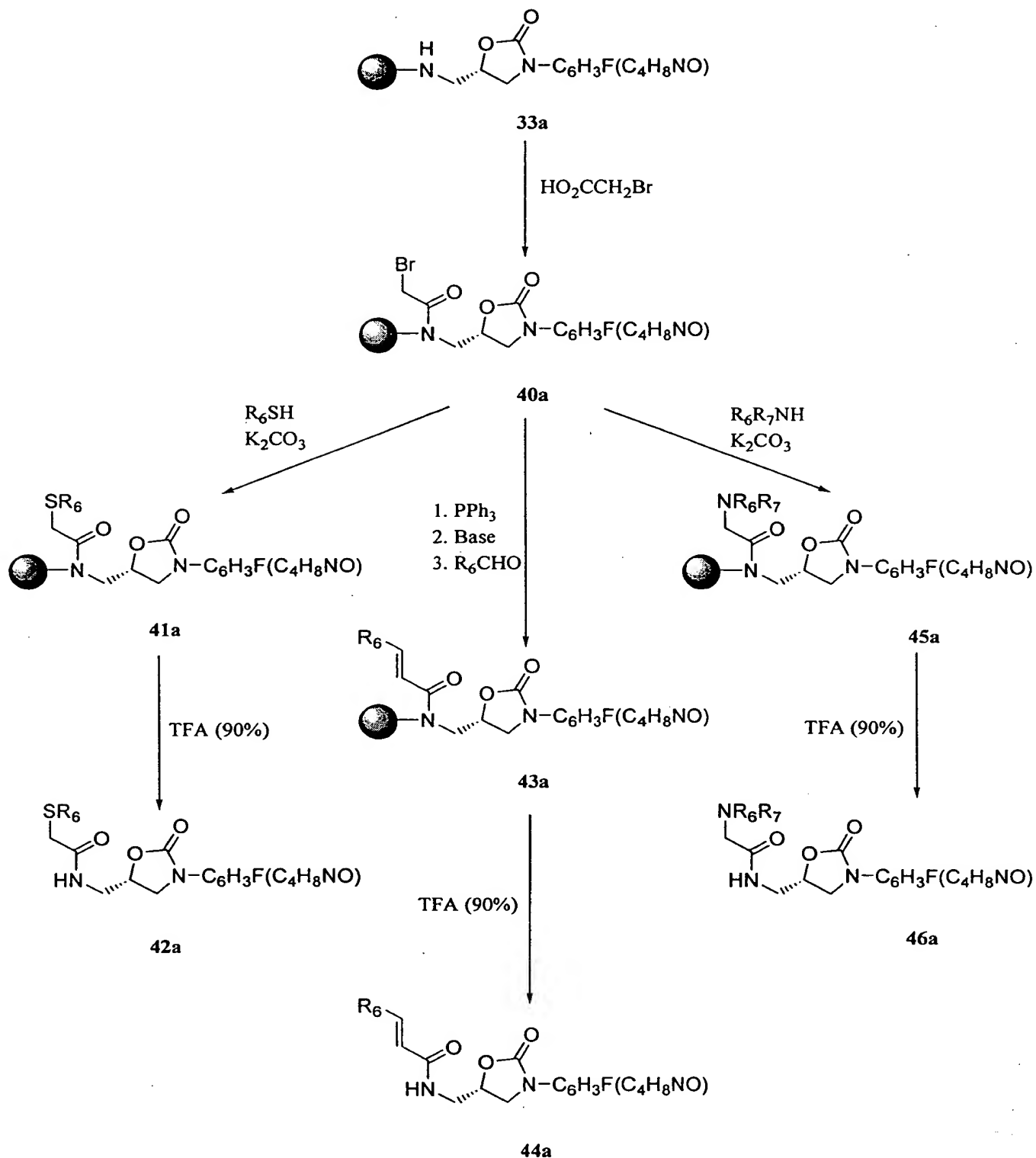


FIGURE 28

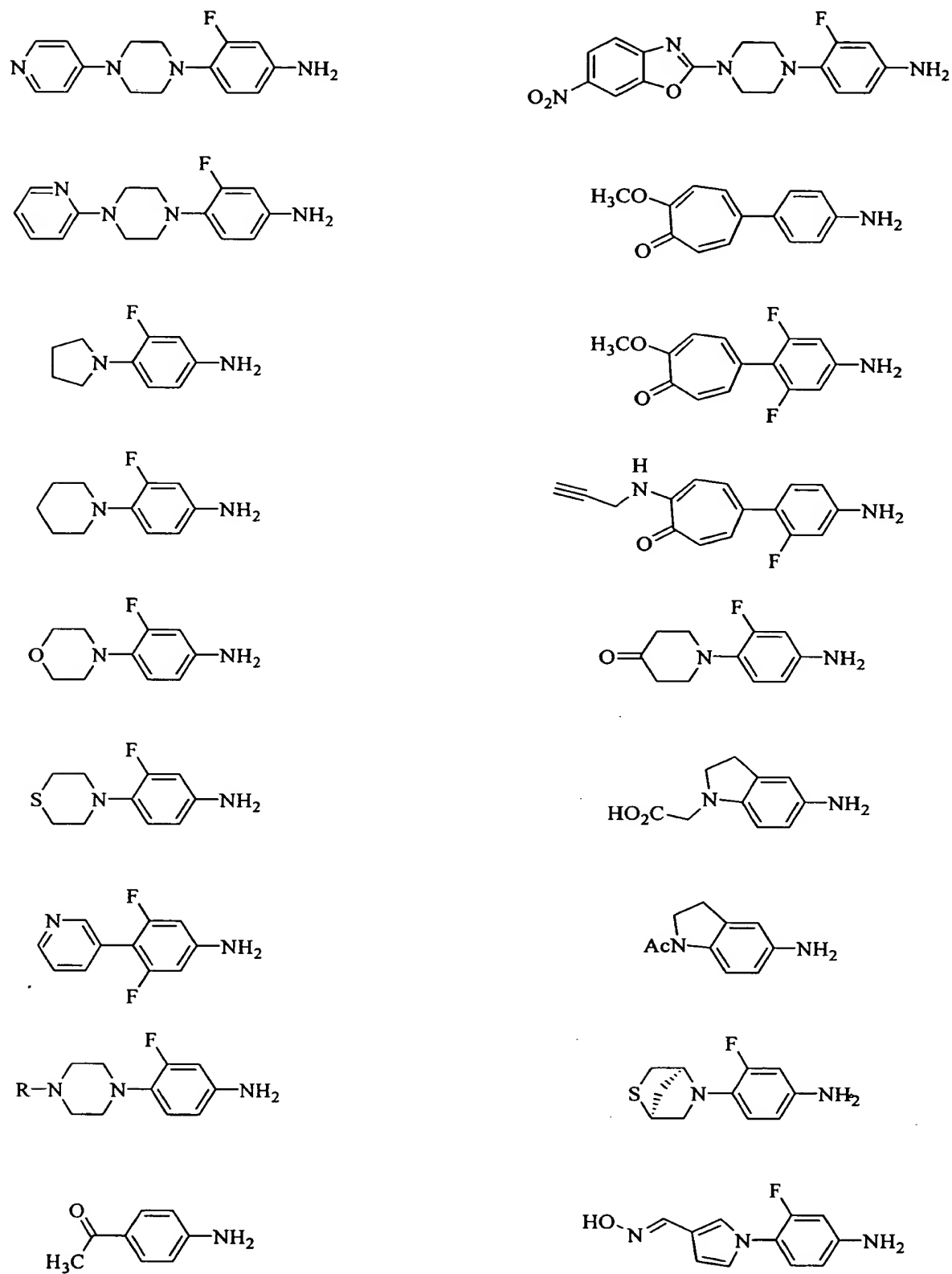


FIGURE 29

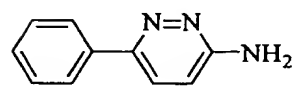
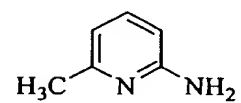
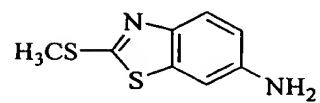
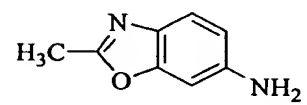
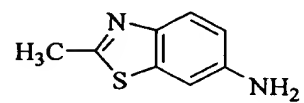
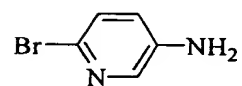
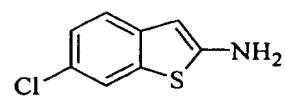
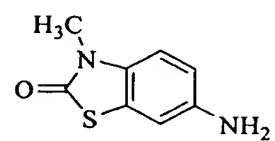
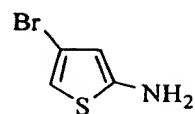
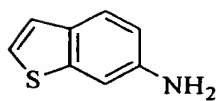
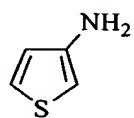
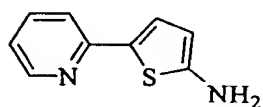
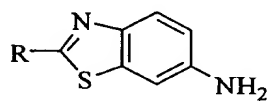
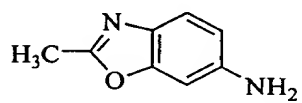
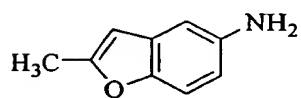
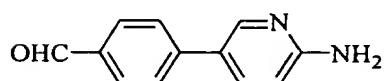
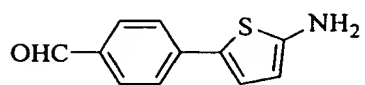
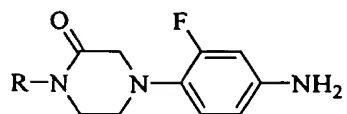


FIGURE 30

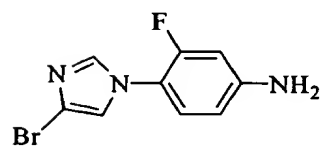
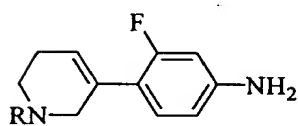
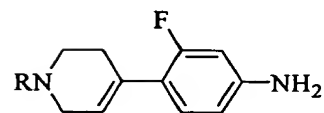
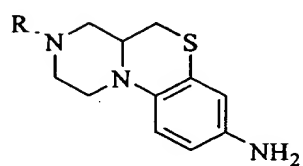
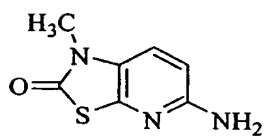
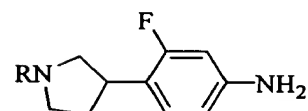
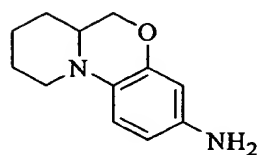
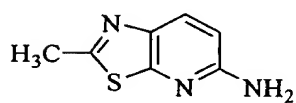
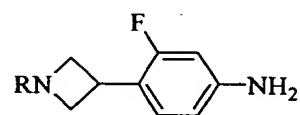
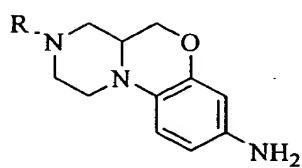
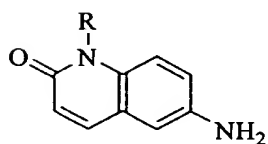
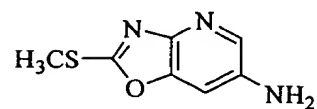
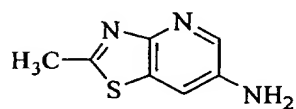
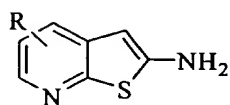
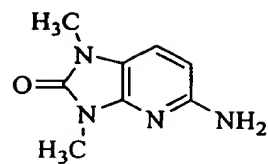
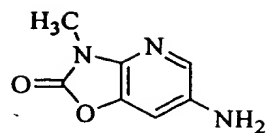
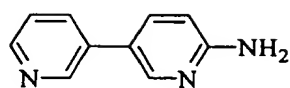


FIGURE 31

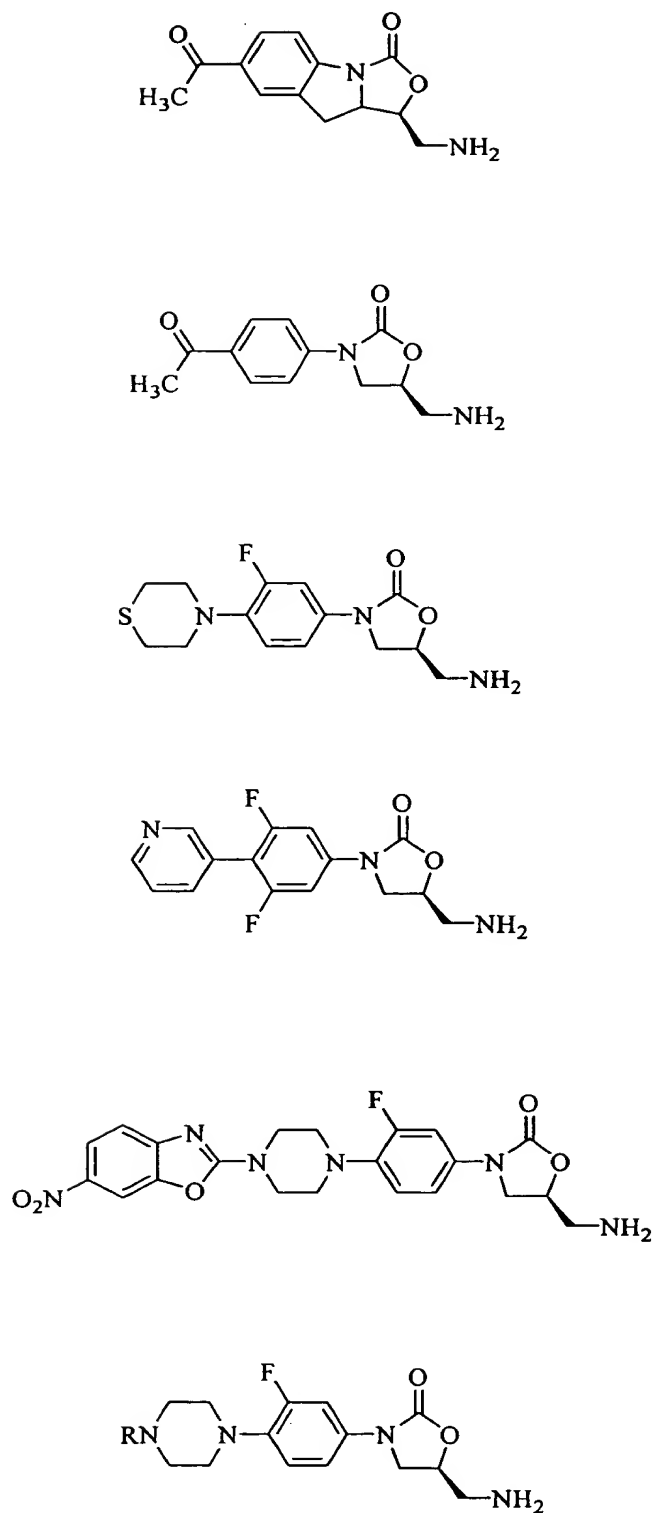


FIGURE 32

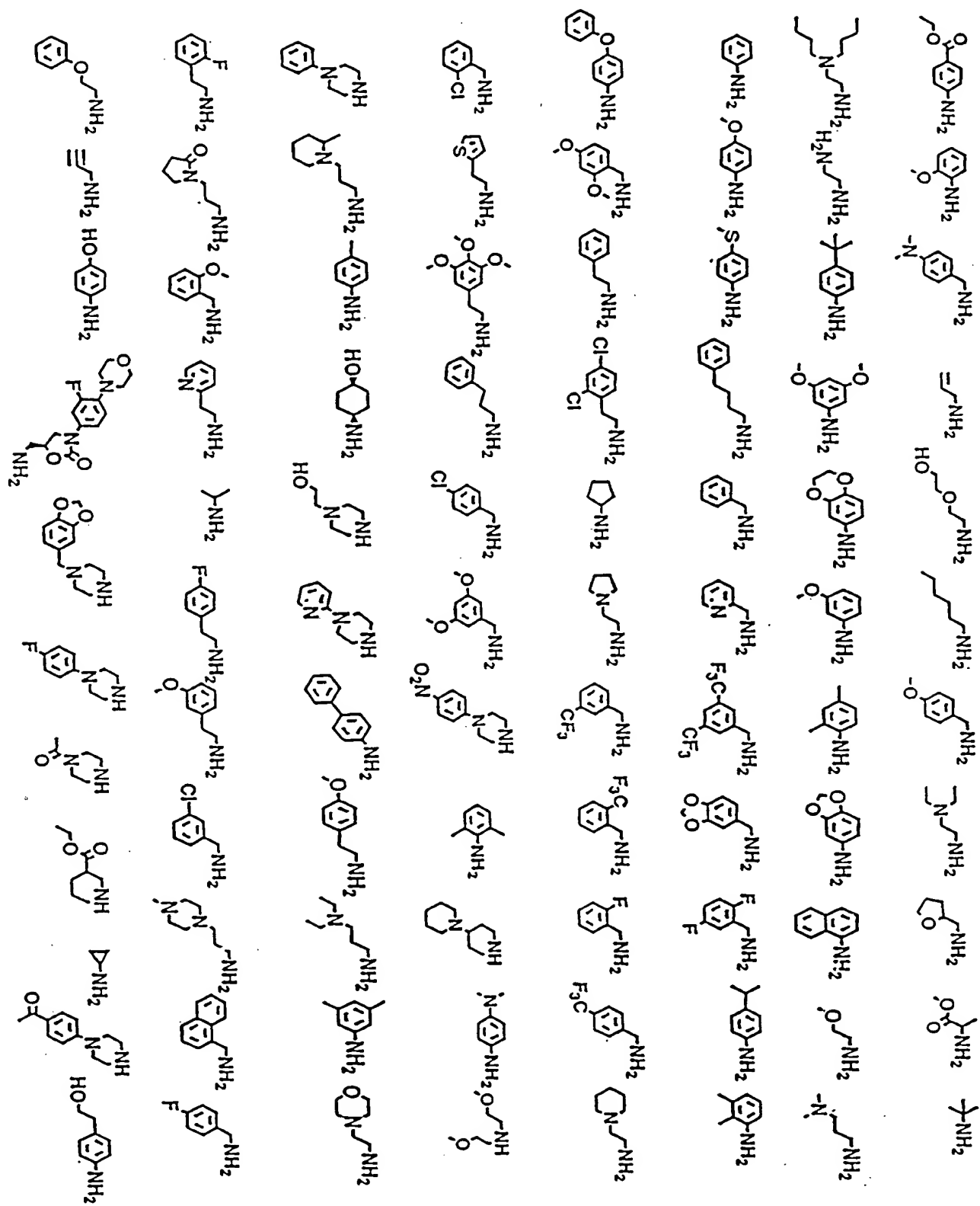


FIGURE 34

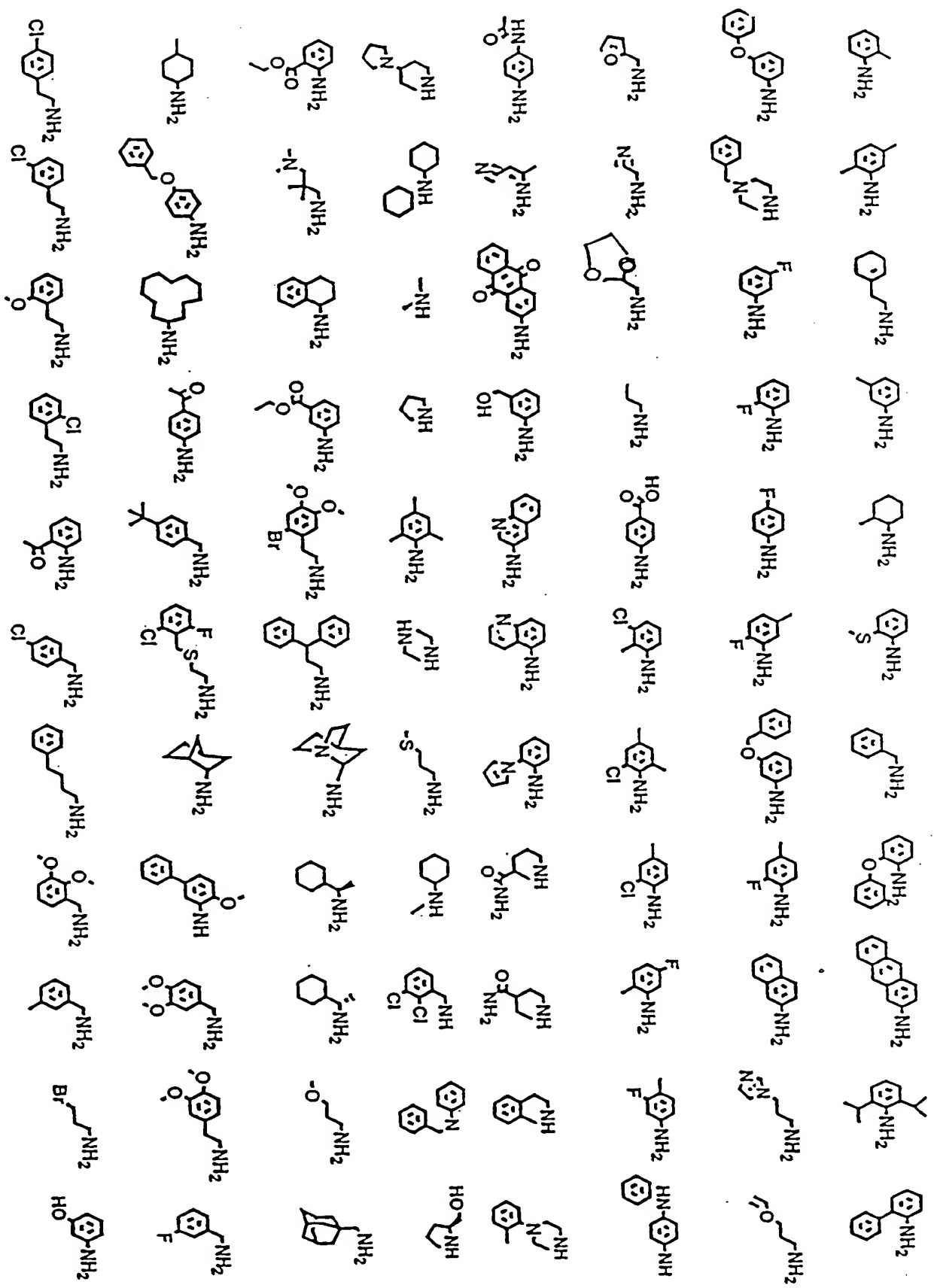


FIGURE 35

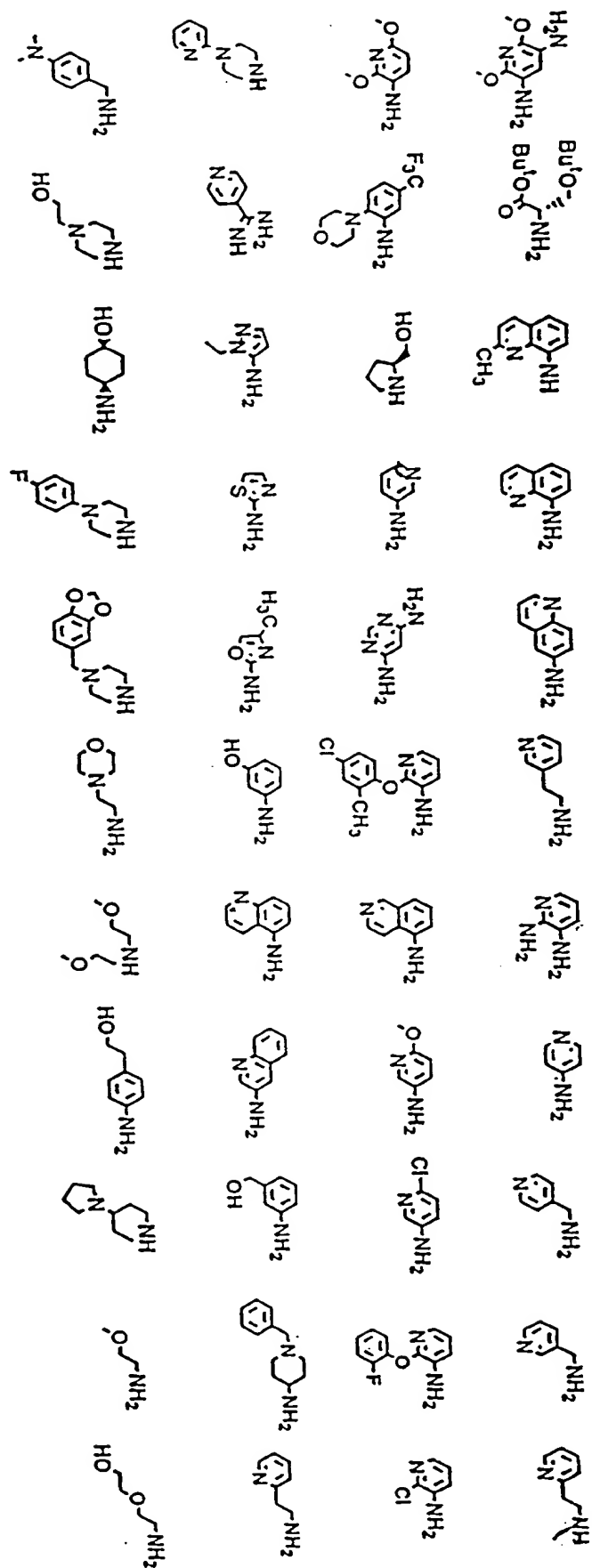


FIGURE 37

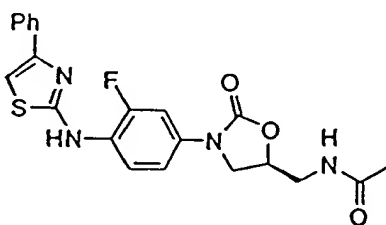
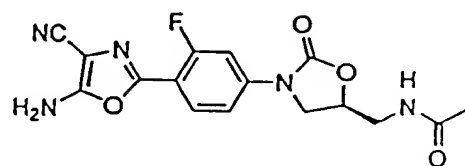
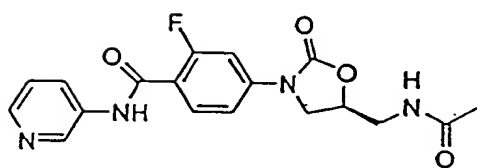
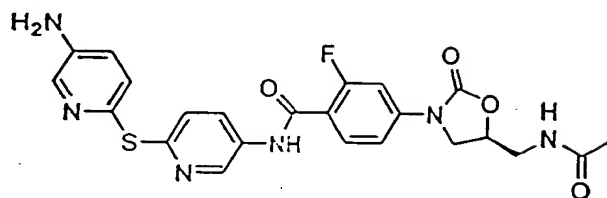
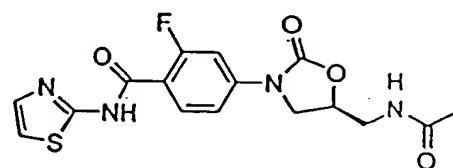
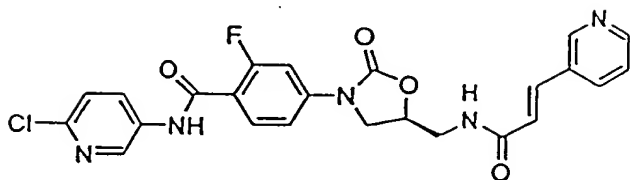
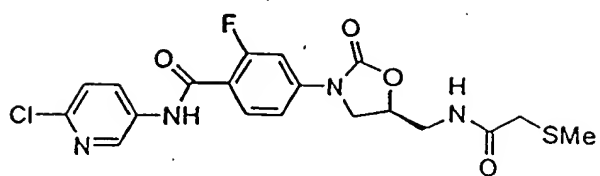
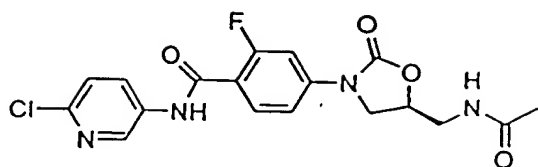


FIGURE 38

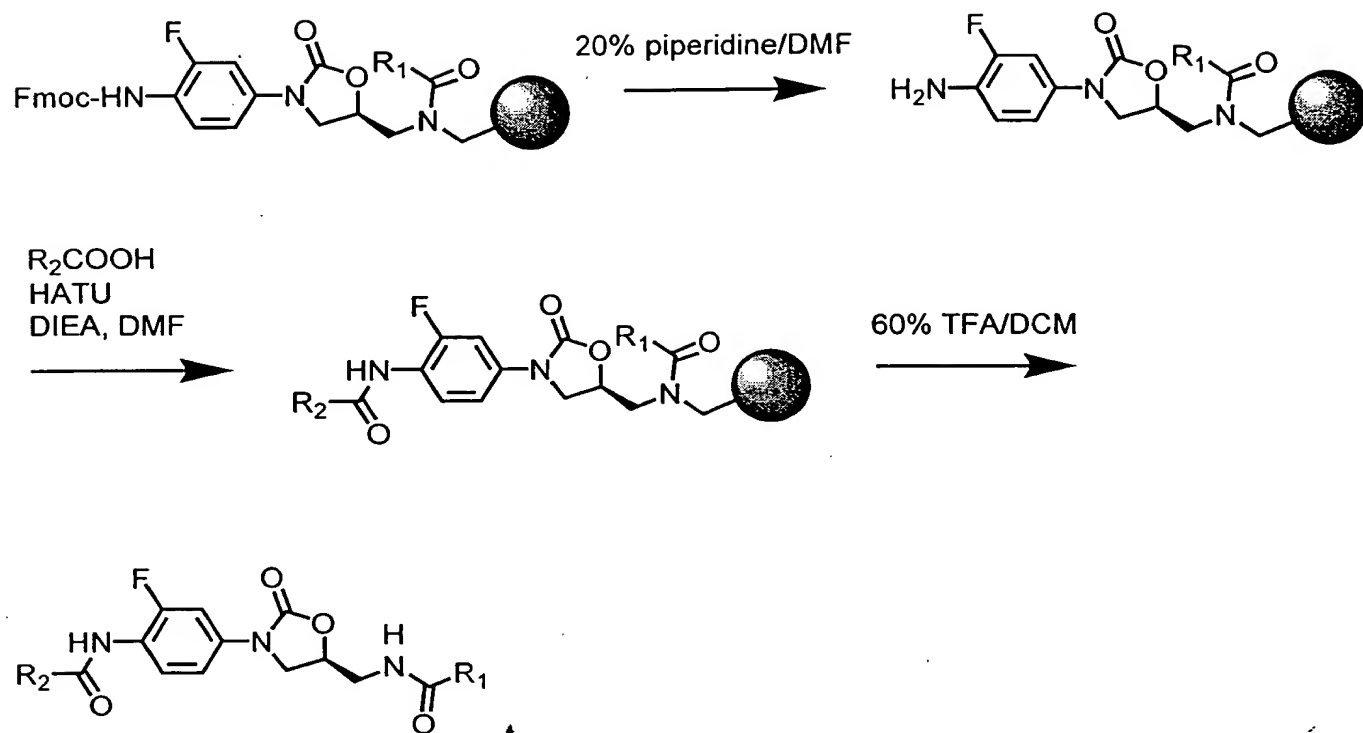


FIGURE 39

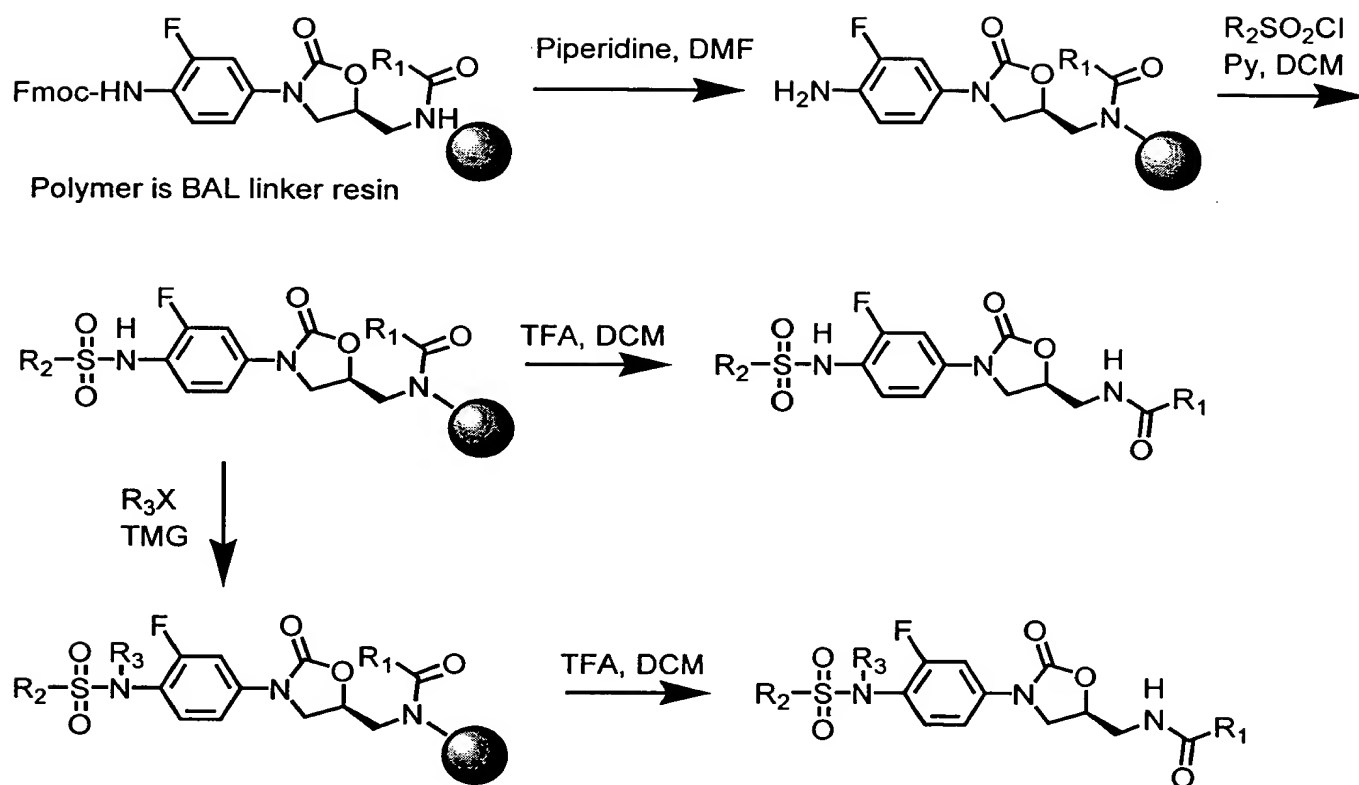
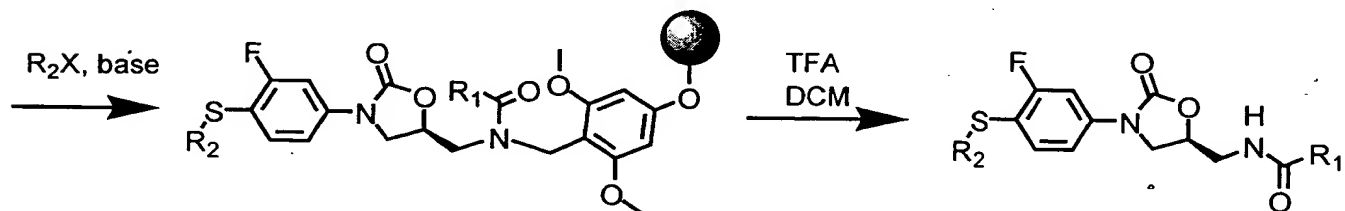
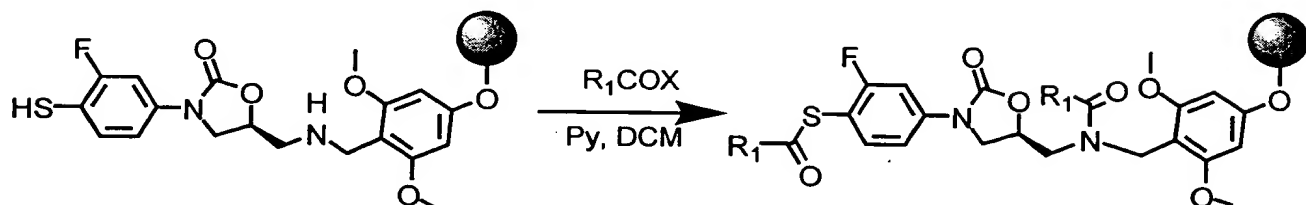
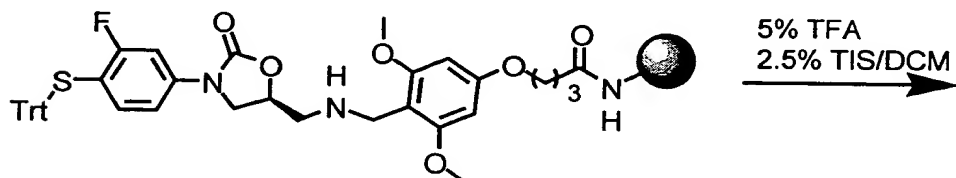
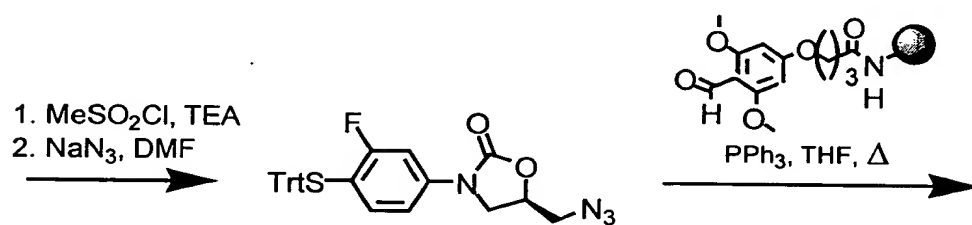
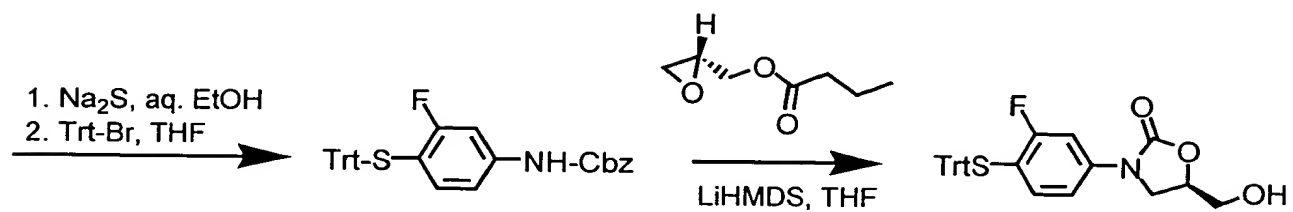


FIGURE 40

**FIGURE 41**

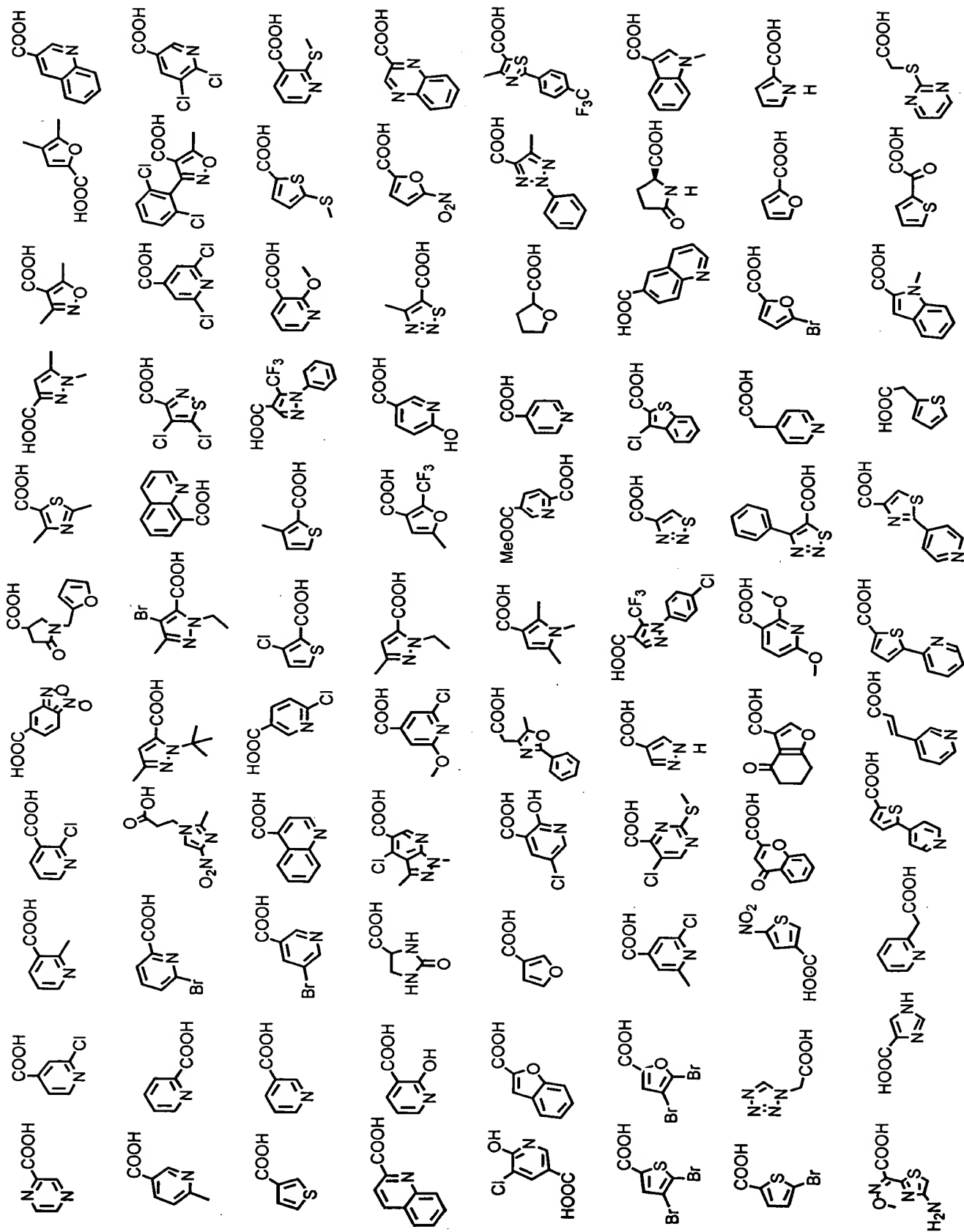


FIGURE 42

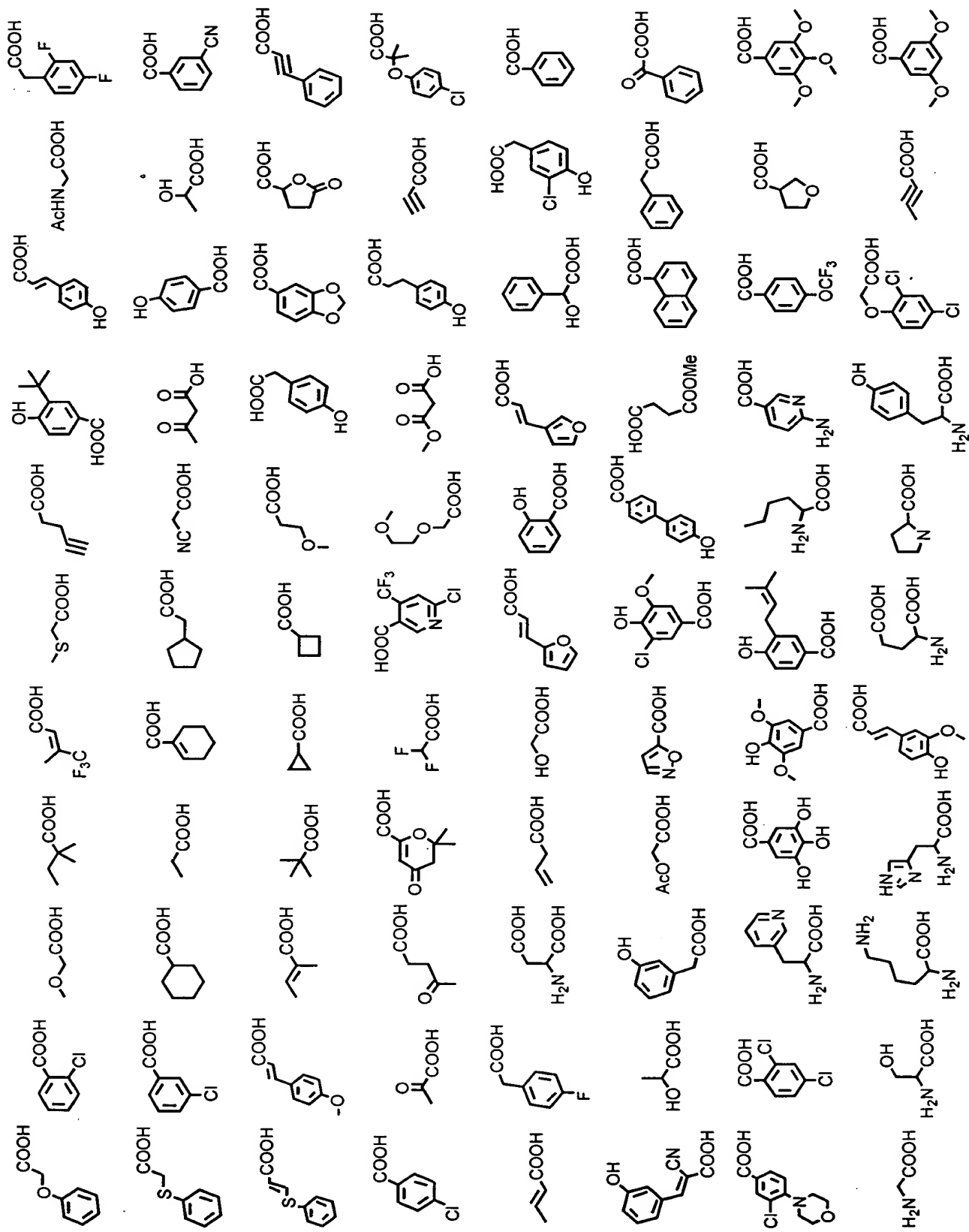


FIGURE 43

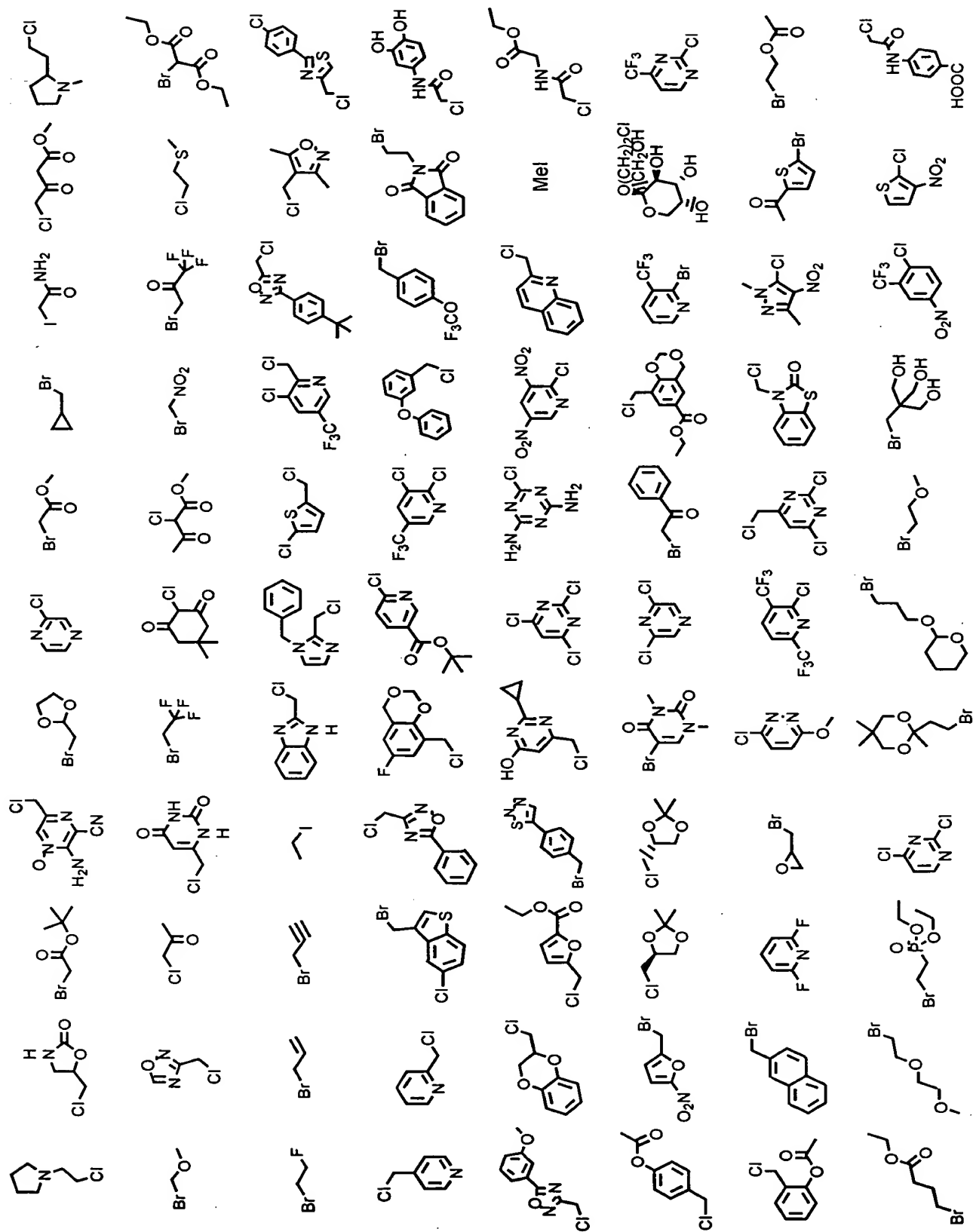


FIGURE 44

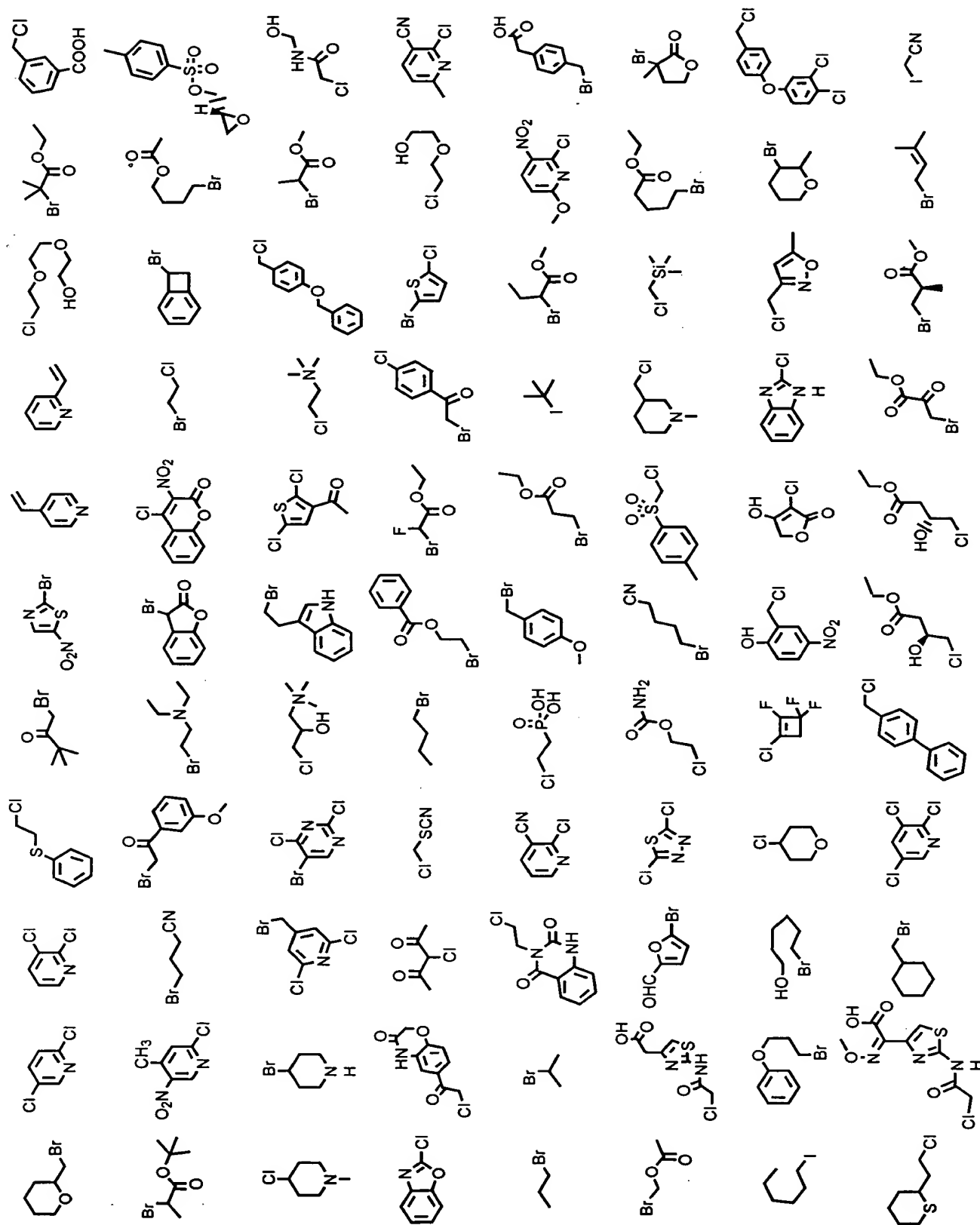


FIGURE 45

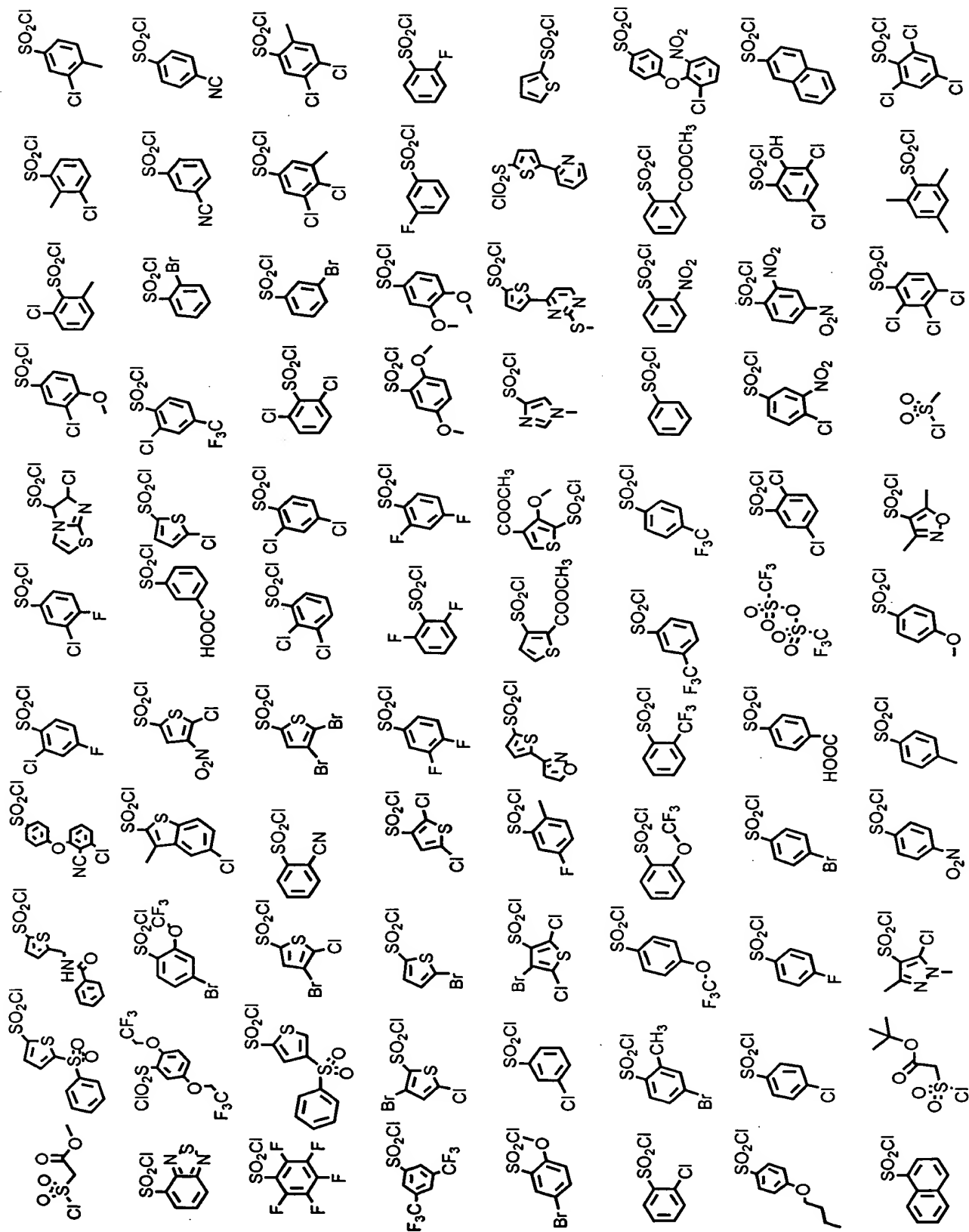


FIGURE 46

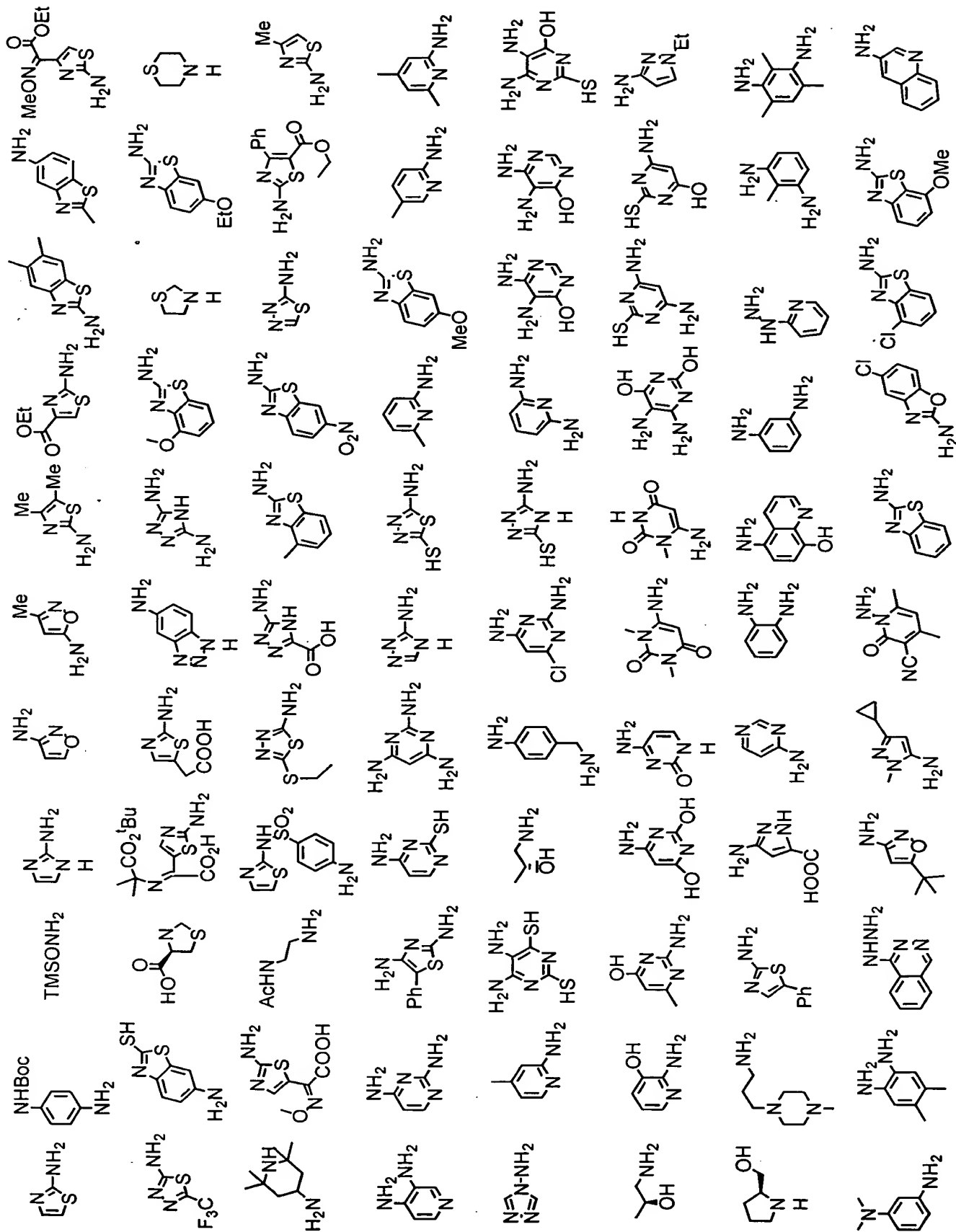
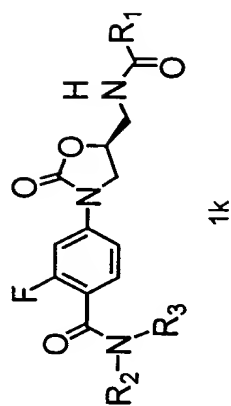
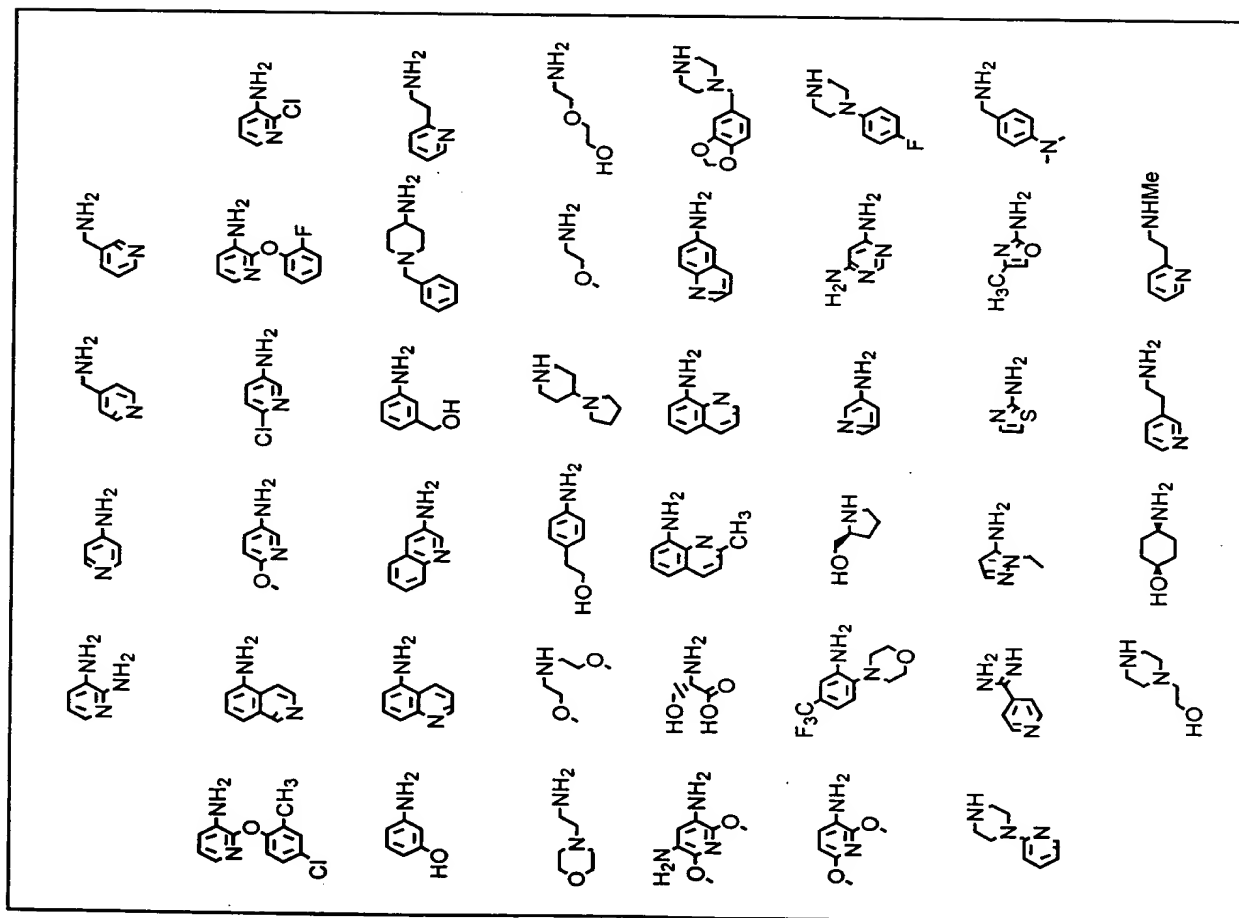


FIGURE 47

R_2R_3NH



R_1COOH

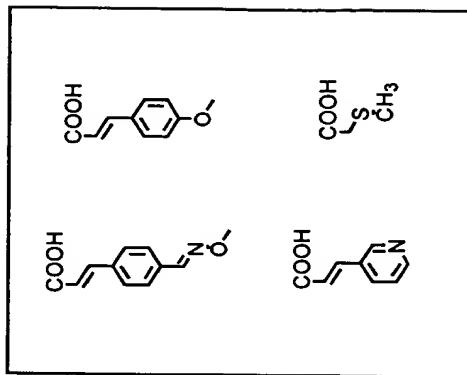
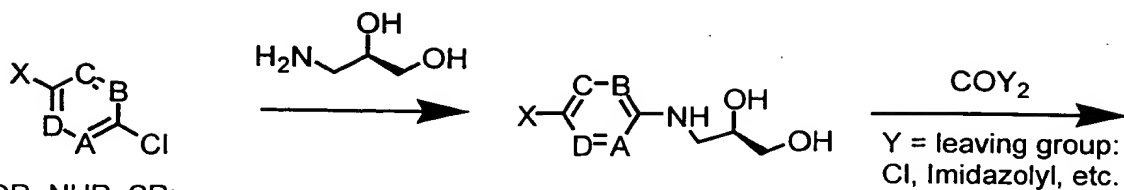


FIGURE 48



X = COOR, NHR, SR;
 R = removable protective group:
 t-Bu, Boc, Trt, etc. as appropriate
 for a given X;
 A-D = one or two N atoms, S, CH, or
 substituent group at C atom, or one
 of these equal zero

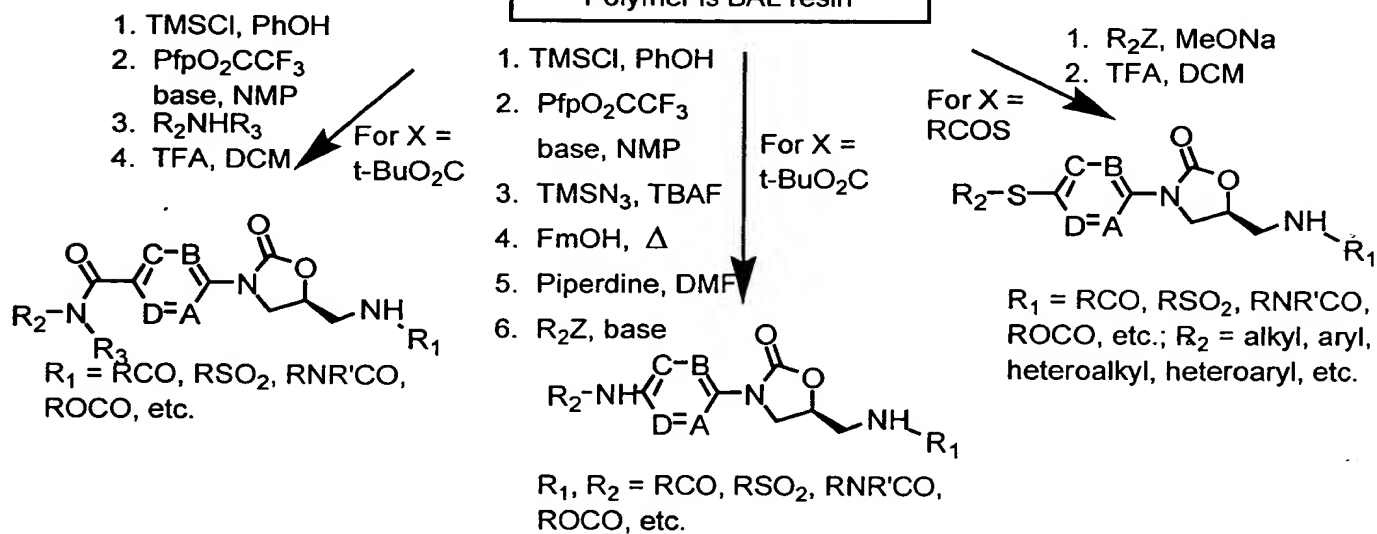
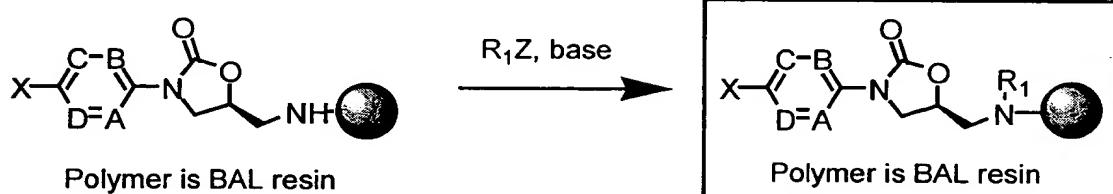
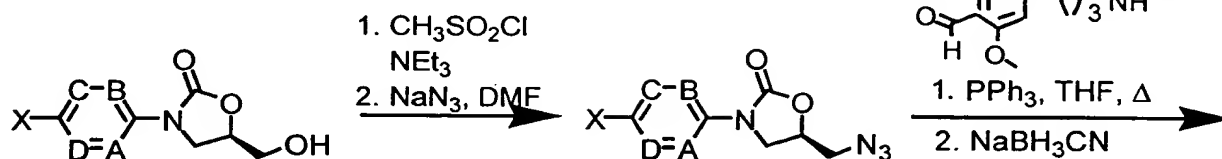
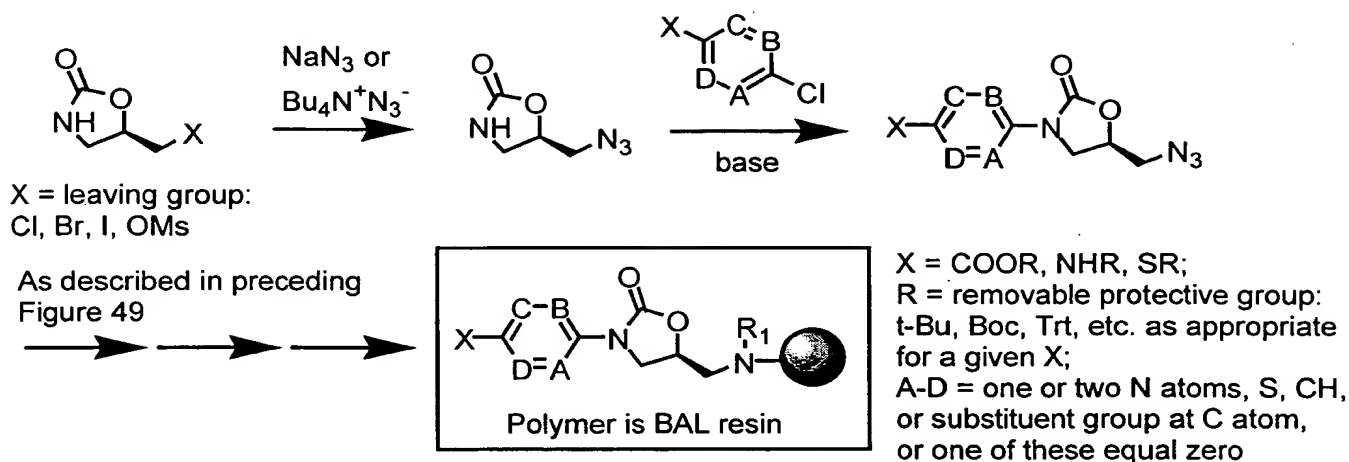


FIGURE 49

Synthesis from 5-(S)-azidomethyloxazolidinone



Synthesis from 5-(S)-(protected amino)methyloxazolidinone

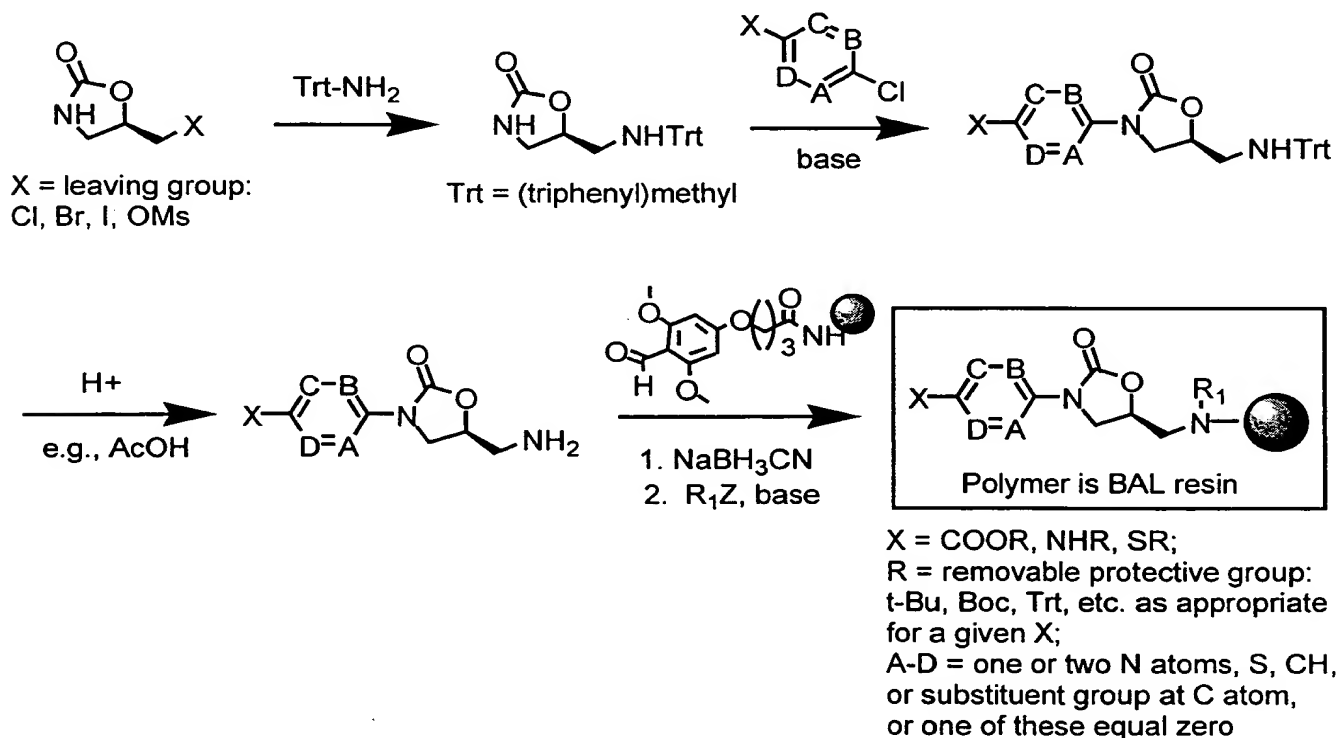


FIGURE 50